

# **State of Wyoming**



## **Department of Health**

### **Wyoming Vital Statistics 1999**

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**September 2001**

# **State of Wyoming Department of Health**

## **Wyoming Vital Statistics 1999**

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This document is available in alternative format upon request.

# **CONTENTS**

	<b>Page</b>
INTRODUCTION .....	1
Population by County, 1990-1999 .....	4
Definitions .....	5
SUMMARY .....	9
Birth, Death, Marriage and Divorce Rates, 1960-1999 (graphs) .....	10
Births, Deaths, Marriages and Divorces by County, 1999 .....	11
Births, Deaths, Infant Deaths, Stillbirths, and Maternal Deaths, 1922-1999 .....	12
NATALITY .....	17
Birth Rates for Women 15 to 19, 1989-1999 (graph) .....	18
Births Rates for Women 15 to 19 by County of Residence, 1995-1999 (map) .....	18
Low Birthweight by Race of Mother, 1981-1999 (graph) .....	19
Low Birthweight and Multiple Births, 1989-1999 .....	20
Low Birthweight by County of Residence, 1995-1999 (map) .....	21
Births to Unmarried Mothers, 1960-1999 (graph) .....	21
Adequacy of Prenatal Care Utilization Index, 1999 .....	22
Mothers Who Smoked by Age, Education and Race/Origin, 1999 .....	23
Births and Rates by County of Residence, 1995-1999 .....	25
Births by Sex, Race of Mother, Origin of Mother and County of Residence, 1999 .....	26
Births by Age, Race, and Origin of Mother, and County of Residence, 1999 .....	27
Births to Unmarried Mothers by Age, Race, and Origin of Mother, and County of Residence, 1999 .....	28
Low Weight Births by County of Residence, 1995-1999 .....	29
Low Weight Births by Age of Mother and County of Residence, 1999 .....	30
Births by Weight at Birth by County of Residence, 1999 .....	31
Births by Live Birth Order by County of Residence, 1999 .....	32
Births by Age of Mother by Live Birth Order, 1999 .....	33
Births by One-Minute by Five Minute Apgar Score, 1999 .....	34
Births by Trimester Prenatal Care Began by County of Residence, 1999 .....	35
Births by Age of Mother by Trimester Prenatal Care Began, 1999 .....	36

Births by Education of Mother by Trimester Prenatal Care Began, 1999 .....	36
Adequacy of Prenatal Care Utilization Index by County of Residence, 1999 .....	37
Births by Education of Mother by County of Residence, 1999 .....	38
Births to Mothers Who Smoked During Pregnancy by County of Residence, 1995-1999 .....	39
Births to Mothers Who Smoked During Pregnancy by Age of Mother and County of Residence, 1999 .....	40
Births by Maternal Weight Gain During Pregnancy by County of Residence, 1999 .....	41
Births by Method of Delivery by County of Residence, 1999 .....	42
Births with Reported Congenital Anomalies, 1995-1999 .....	43
Births by County of Occurrence, Attendant, and Place of Delivery, 1999 .....	44
Birth Travel Patterns, 1999 .....	45
Births by County of Residence and County of Occurrence, 1995-1999 .....	46
MORTALITY .....	49
Comparable Category Codes and Estimated Comparability Ratios .....	51
Ten Leading Causes of Death, 1999 .....	52
Age Adjusted Death Rates for Ten Leading Causes, 1998,1999 .....	53
Leading Causes of Years of Potential Life Lost, 1999 .....	54
Numbers of Deaths by Leading Causes, 1999 (graph) .....	55
Years of Potential Life Lost by Leading Causes, 1999 (graph) .....	55
Infant Mortality Rates, 1970-1999 (graph) .....	56
Neonatal Mortality Rates, 1970-1999 (graph) .....	56
Postneonatal Mortality Rates, 1970-1999 (graph) .....	57
Leading Causes of Infant Death, 1999 .....	58
Deaths and Rates by County of Residence, 1995-1999 .....	59
Deaths by Sex, Race, Origin, Age and County of Residence, 1999 .....	60
Deaths by Selected Cause and County of Residence, 1999 .....	61
Leading Cause of Deaths by Age Group and Sex, 1999 .....	62
Deaths by Selected Cause and Age, 1999 .....	65
Male Deaths by Selected Cause and Age, 1999 .....	66
Female Deaths by Selected Cause and Age, 1999 .....	67
Deaths by Detailed Cause and Sex, 1999 .....	68
Deaths by County of Residence and County of Occurrence, 1995-1999 .....	75
Infant, Neonatal, and Post Neonatal Mortality Rates, 1970-1999 .....	76
Infant Deaths by Age and County of Residence, 1999 .....	77
Infant and Neonatal Deaths by County of Residence, 1995-1999 .....	78
Infant Deaths by Selected Cause and Age, 1999 .....	79

Stillbirths by County of Residence, 1995-1999 . . . . .	80
MARRIAGE AND DIVORCE . . . . .	83
Marriages and Rates by County of Occurrence, 1995-1999 . . . . .	84
Marriages by Month and County of Occurrence, 1999 . . . . .	85
Marriages by Age of Groom and Age of Bride, 1999 . . . . .	86
Marriages by Age and Previous Marital Status of Bride and Groom, 1999 . . . . .	87
Divorces and Annulments with Rates by County of Occurrence, 1995-1999 . . . . .	88
Divorces and Annulments by Duration of Marriage and County of Occurrence, 1999 . . . . .	89
Divorces and Annulments by Number of Children Affected and County of Occurrence, 1999 . . . . .	90

## ***INTRODUCTION***

Data in this report has been tabulated from birth, death, stillbirth, marriage, divorce and annulment records filed with Vital Records Services, and from transcripts of records from other states involving the death of a Wyoming resident or a birth to a mother who was a Wyoming resident. Although events are registered in the state in which they take place, the exchange of records between states allows the compilation of birth, death and stillbirth statistics by state and county of residence. Most of the birth and death information included here is presented by place of residence. Headings of individual tables specify resident or occurrence data. Marriage and divorce data is limited to Wyoming occurrences.

Tables include all events for which records were received in this office by April 30th of the year following the event. The number of events not included is small, and counts can be considered relatively complete.

***POPULATION ESTIMATES*** The population estimates for 1991 through 1999 used to calculate rates in this report were developed by the Population Estimates Program of the U.S. Bureau of the Census. Since the Census Bureau revises these estimates annually, population based rates published here may differ from those in prior reports.

***NATIONAL DATA*** National data included in this report is from a series of publications of the National Center for Health Statistics entitled *National Vital Statistics Reports*. National marriage and divorce rates for 1999 are provisional. National natality and mortality data for 1999 is from a statistical file that is classified as "preliminary data." Final U.S. data for 1999 may differ from these figures.

***DATA RELIABILITY*** Caution must be used in the interpretation of vital statistics rates which are based on a small population, or on a small number of events. A chance variation of one or two events can make a substantial difference in these rates or percentages causing major fluctuations in them from year to year. One frequently used guideline is to consider rates based on less than 20 events statistically unreliable. Some rates have been tabulated for three or five year time periods to alleviate this problem.

Younger populations will tend to have higher crude birth rates and lower crude death rates than older populations, simply because of the age composition of the population. For this reason comparison of crude rates for different areas or for one area over a period of years can be misleading. This is important to remember when comparing rates for counties within the state, since some counties have much younger populations than others, or when examining rates for the state or nation over a period of years, since both state and national populations have been aging in recent years. In order to eliminate the effect of differing age structures, age specific or age adjusted rates should be calculated.

**UNDERLYING CAUSE OF DEATH** The certification of the cause of death on the death certificate is completed by the attending physician or by the coroner with the assistance of a physician. Although a number of medical conditions may be listed on the certificate, statistics presented here are based solely on the underlying cause of death. This is defined as the disease or injury that initiated the sequence of events leading directly to death or as the circumstances of the accident or violence that produced the fatal injury. The underlying cause is selected and classified according to the specifications of the World Health Organization as set forth in the *Tenth Revision of the International Classification of Diseases (ICD-10)*.

**YEAR 2000 STANDARD FOR AGE ADJUSTED DEATH RATES** Effective with the publication of 1999 data, the uniform standard population used to age adjust death rates is changing from the U.S. population in 1940 to the U.S. population in 2000. Because the magnitude of age adjusted death rates depends in part on the standard population used to calculate them, comparisons of age adjusted death rates calculated with different standard populations are not valid. All age adjusted death rates in this report have been adjusted to the U.S. 2000 population and are not comparable to those published in previous reports.

**IMPLEMENTATION OF ICD-10** Beginning with deaths occurring in 1999, the cause of death is being coded using the Tenth Revision of the International Classification of Disease (ICD-10). This replaces the Ninth Revision (ICD-9) which was used for deaths occurring from 1979 through 1998. There are major differences between the two revisions including differences in the rules used to select the underlying cause of death and in the tabulation

lists used to group conditions for publication. In order to enable analysis of trends in cause of death that span the two revisions, the National Center for Health Statistics has developed lists of most comparable codes, and has calculated comparability ratios between the two revisions.

More detailed information concerning both the change in the standard population used to calculate age adjusted death rates and the implementation of ICD-10 is available on the National Center for Health Statistics website at <http://www.cdc.gov/nchs/>.

This report does not include all available tabulations. Additional data will be furnished upon request to Vital Records Services, Hathaway Building, Cheyenne, WY 82002.



**POPULATION BY COUNTY**  
**WYOMING 1990 - 1999**

	Year									
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Wyoming	453,589	457,739	463,491	469,033	474,982	478,447	480,085	480,031	480,045	479,602
Albany	30,797	30,816	30,736	31,021	30,968	30,813	30,587	29,672	29,251	29,060
Big Horn	10,525	10,553	10,654	10,693	10,849	11,106	11,190	11,089	11,331	11,214
Campbell	29,370	29,825	30,515	30,535	30,823	31,421	31,920	32,072	32,387	32,727
Carbon	16,659	16,370	16,085	16,195	16,042	16,036	15,925	15,722	15,543	15,437
Converse	11,128	11,130	11,365	11,567	11,668	11,937	12,127	12,332	12,280	12,396
Crook	5,294	5,305	5,389	5,411	5,623	5,639	5,762	5,799	5,781	5,778
Fremont	33,662	34,096	34,248	34,746	35,159	35,695	35,943	36,066	36,128	36,191
Goshen	12,373	12,395	12,447	12,568	12,612	12,645	12,710	12,945	12,805	12,651
Hot Springs	4,809	4,682	4,724	4,612	4,684	4,602	4,626	4,691	4,646	4,475
Johnson	6,145	6,197	6,260	6,330	6,496	6,624	6,713	6,761	6,796	6,858
Laramie	73,142	73,706	75,326	76,762	77,916	78,300	78,729	78,626	78,583	78,877
Lincoln	12,625	12,932	13,042	13,211	13,600	13,873	13,967	13,830	13,809	13,998
Natrona	61,226	61,878	62,309	62,838	63,797	63,801	63,618	63,703	63,241	63,157
Niobrara	2,499	2,421	2,458	2,516	2,537	2,600	2,641	2,642	2,700	2,684
Park	23,178	23,268	23,673	24,235	24,905	25,320	25,325	25,659	25,751	25,500
Platte	8,145	8,133	8,151	8,166	8,281	8,322	8,427	8,548	8,618	8,612
Sheridan	23,562	23,575	23,959	24,379	24,716	24,984	25,196	25,142	25,154	25,090
Sublette	4,843	4,958	5,013	5,170	5,390	5,492	5,573	5,651	5,746	5,811
Sweetwater	38,823	39,773	40,342	40,541	40,590	40,623	40,166	39,771	39,722	39,322
Teton	11,173	11,784	12,198	12,827	13,094	13,349	13,587	13,902	14,193	14,532
Uinta	18,705	19,160	19,581	19,728	20,123	20,122	20,221	20,273	20,394	20,288
Washakie	8,388	8,304	8,445	8,490	8,537	8,577	8,549	8,621	8,686	8,541
Weston	6,518	6,478	6,571	6,492	6,572	6,566	6,583	6,514	6,500	6,403

## ***DEFINITIONS***

RESIDENCE DATA - data compiled on the basis of the place of residence of the decedent (deaths), or the place of residence of the child's mother (births, stillbirths).

OCCURRENCE DATA - data compiled on the basis of where the event actually occurred, regardless of the person's place of residence.

LIVE BIRTH - a birth that shows any sign of life after delivery.

LOW BIRTHWEIGHT - less than 2500 grams or 5 lbs. 8 oz.

INFANT DEATH - death of a live born infant under one year of age.

NEONATAL DEATH - death of a live born infant under 28 days old.

MATERNAL DEATH - death of a mother caused by complications of pregnancy, childbirth or the puerperium.

STILLBIRTH (FETAL DEATH) - death taking place after 20 weeks gestation and before birth.

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(CRUDE) BIRTH RATE - number of live births per 1,000 population.

$$\frac{\text{live births}}{\text{total population}} \times 1,000$$

FERTILITY RATE - total number of live births per 1,000 women 15 - 44 years of age.

$$\frac{\text{live births}}{\text{females 15 - 44}} \times 1,000$$

(CRUDE) DEATH RATE - number of deaths per 1,000 population.

$$\frac{\text{deaths}}{\text{total population}} \times 1,000$$

AGE SPECIFIC DEATH RATE - the number of deaths in a specific age group per 100,000 population in that age group.

$$\frac{\text{deaths in age group}}{\text{population in age group}} \times 100,000$$

AGE ADJUSTED DEATH RATE (Direct Method) - rate used to compare relative mortality risks across different groups and over time. It is computed by applying

age-specific death rates to a standard population. Age adjusted rates should not be compared to crude rates.

CAUSE SPECIFIC DEATH RATE - number of deaths from a specific cause per 100,000 population.

$$\frac{\text{deaths from cause}}{\text{total population}} \times 100,000$$

INFANT MORTALITY RATE - number of infant deaths per 1,000 live births.

$$\frac{\text{infant deaths}}{\text{live births}} \times 1,000$$

NEONATAL MORTALITY RATE - number of neonatal deaths per 1,000 live births.

$$\frac{\text{neonatal deaths}}{\text{live births}} \times 1,000$$

MATERNAL MORTALITY RATE - number of maternal deaths per 10,000 live births.

$$\frac{\text{maternal deaths}}{\text{live births}} \times 10,000$$

STILLBIRTH RATIO - number of stillbirths per 1,000 live births.

$$\frac{\text{stillbirths}}{\text{live births}} \times 1,000$$

MARRIAGE RATE - number of marriages per 1,000 population.

$$\frac{\text{marriages}}{\text{total population}} \times 1,000$$

DIVORCE AND ANNULMENT RATE - number of divorces and annulments per 1,000 population.

$$\frac{\text{divorces \& annulments}}{\text{total population}} \times 1,000$$

## ***SUMMARY***

## **SUMMARY**

### **BIRTHS**

Wyoming's birth rate fell to a record low of 12.8 births per 1,000 population in 1999. There were 6,122 resident births, the lowest number since 1973.

### **TEEN BIRTHS**

Births to teen-age mothers fell from 1,014 in 1998 to 850 in 1999. The birth rate for women 15 to 19 was 40.4 births per 1,000 females in that age group.

### **UNMARRIED MOTHERS**

There were 1,773 births to unmarried mothers. Births to unmarried mothers as a percentage of total births fell from 29.6% to 29.0%.

### **LOW BIRTHWEIGHT**

Infants weighing less than 2500 grams made up 8.3% of the state's births, down from 8.9% in 1998.

### **DEATHS**

The number of resident deaths posted a record high for the third consecutive year in 1999. There were 4,038 resident deaths. The crude death rate rose from 8.0 deaths per 1,000 population to 8.4

### **LEADING CAUSES**

The change in the coding scheme used for cause of death to Tenth Revision of the International Classification of Disease influenced the rankings of the state's ten leading causes of death. Influenza and pneumonia ranked lower than in 1998 while Alzheimer's disease ranked higher.

### **INFANT DEATHS**

The infant mortality rate fell from 7.0 infant deaths per 1,000Live births to 6.9. This was due to a small decrease in the number of neonatal deaths.

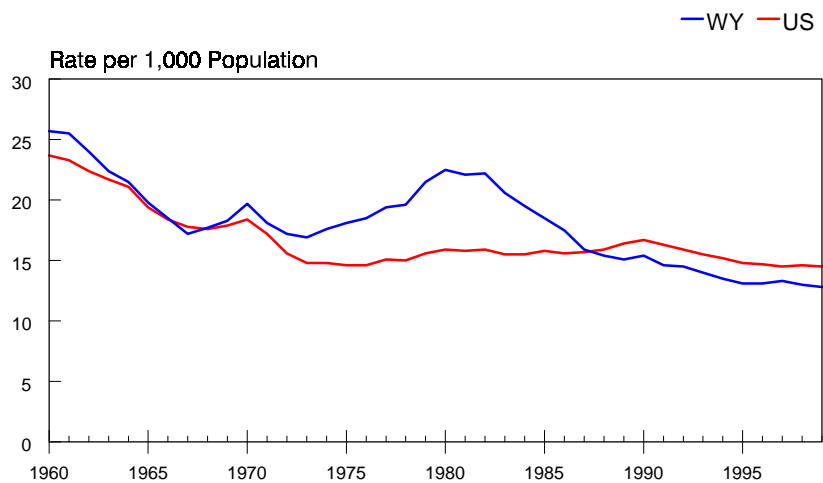
### **MARRIAGES**

There were 4,931 marriages performed in the state, up from 4,788 in 1998. The marriage rate was 10.3 per 1,000 population, compared to a national rate of 8.6.

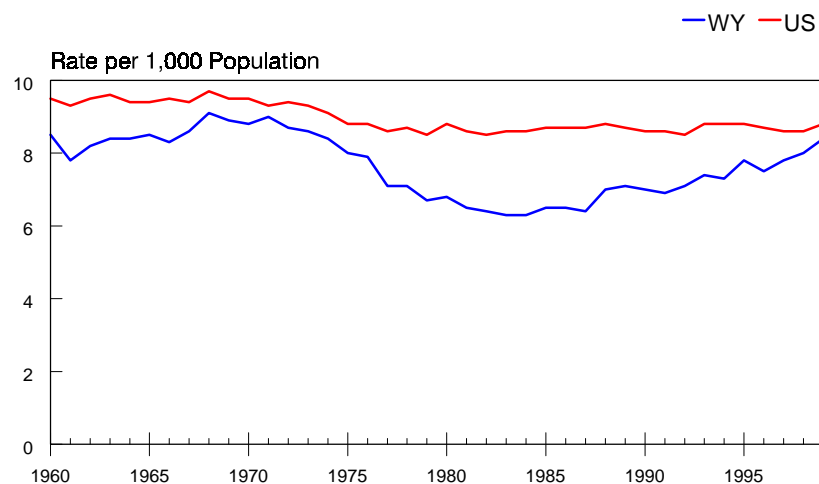
### **DIVORCES**

The number of divorces and annulments granted in the state was 2,818. The divorce rate was 5.9 divorces per 1,000 population, 44% above the national rate.

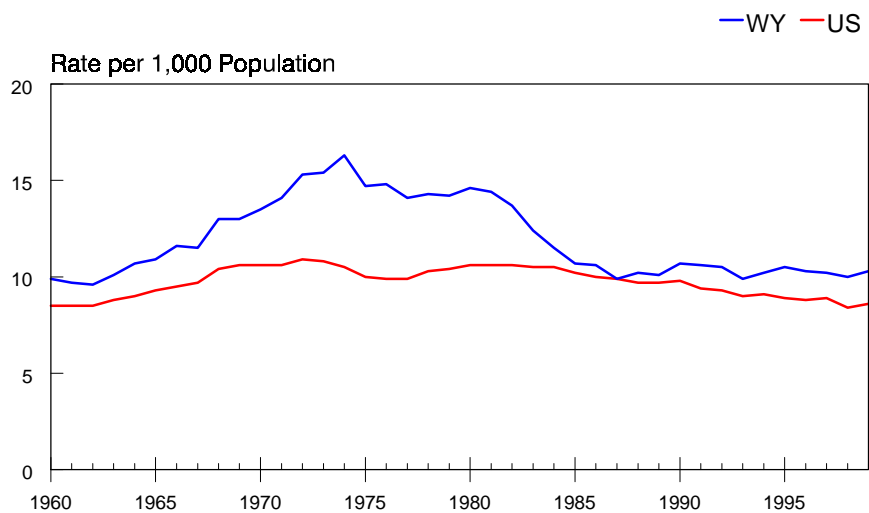
### ***BIRTH***



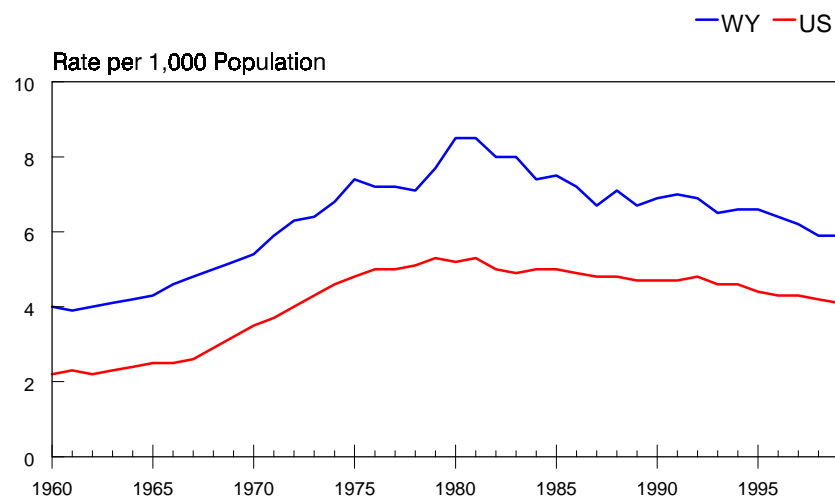
### ***DEATH***



### ***MARRIAGE***



### ***DIVORCE***



**BIRTHS, DEATHS, MARRIAGES,  
AND DIVORCES BY COUNTY  
WYOMING, 1999**

County	Births		Deaths		Marriages		Divorces	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Wyoming	6,122	12.8	4,038	8.4	4,931	10.3	2,818	5.9
Albany	352	12.1	172	5.9	231	7.9	115	4.0
Big Horn	148	13.2	141	12.6	76	6.8	43	3.8
Campbell	469	14.3	155	4.7	324	9.9	181	5.5
Carbon	151	9.8	137	8.9	167	10.8	99	6.4
Converse	160	12.9	93	7.5	104	8.4	45	3.6
Crook	59	10.2	38	6.6	42	7.3	29	5.0
Fremont	481	13.3	365	10.1	332	9.2	175	4.8
Goshen	135	10.7	132	10.4	118	9.3	54	4.3
Hot Springs	48	10.7	68	15.2	53	11.8	37	8.3
Johnson	64	9.3	58	8.5	56	8.2	25	3.6
Laramie	1,106	14.0	638	8.1	798	10.1	522	6.6
Lincoln	189	13.5	104	7.4	102	7.3	76	5.4
Natrona	846	13.4	589	9.3	591	9.4	426	6.7
Niobrara	25	9.3	32	11.9	16	6.0	9	3.4
Park	260	10.2	272	10.7	244	9.6	155	6.1
Platte	99	11.5	112	13.0	71	8.2	54	6.3
Sheridan	275	11.0	272	10.8	293	11.7	151	6.0
Sublette	65	11.2	52	8.9	62	10.7	34	5.9
Sweetwater	543	13.8	252	6.4	362	9.2	287	7.3
Teton	190	13.1	68	4.7	548	37.7	91	6.3
Uinta	294	14.5	124	6.1	176	8.7	142	7.0
Washakie	102	11.9	97	11.4	83	9.7	48	5.6
Weston	60	9.4	66	10.3	52	8.1	20	3.1
Yellowstone NP	1	--	1	--	30	--	-	--

Note: Tabulated by county of residence for births and deaths and by county of occurrence for marriages and divorces.

**BIRTHS, DEATHS, INFANT DEATHS, STILLBIRTHS, AND MATERNAL DEATHS  
WYOMING, 1922 - 1999**

Year	Estimated Population	Births		Deaths		Infant Deaths		Stillbirths		Maternal Deaths	
		Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1922	207,677	5,188	25.0	1,930	9.3	408	78.6	180	34.7	N/A	N/A
1923	211,459	4,950	23.4	2,180	10.3	394	79.6	165	33.3	36	72.7
1924	215,011	5,226	24.3	2,063	9.6	336	64.3	180	34.4	51	97.6
1925	215,991	4,833	22.4	1,896	8.8	309	63.9	146	30.2	46	95.2
1926	217,152	4,388	20.2	1,902	8.8	333	75.9	137	31.2	41	93.4
1927	218,949	4,472	20.4	1,976	9.0	308	68.9	131	29.3	39	87.2
1928	220,455	4,496	20.4	2,155	9.8	305	67.8	128	28.5	29	64.5
1929	223,427	4,424	19.8	2,010	9.0	311	70.3	100	22.6	28	63.3
1930	225,940	4,471	19.8	2,079	9.2	310	69.3	134	30.0	41	91.7
1931	227,783	4,504	19.8	2,035	8.9	301	66.8	117	26.0	38	84.4
1932	228,498	4,249	18.6	2,057	9.0	242	57.0	112	26.4	28	65.9
1933	228,863	4,207	18.4	1,975	8.6	230	54.7	84	20.0	24	57.0
1934	231,046	4,565	19.8	2,096	9.1	242	53.0	89	19.5	28	61.3
1935	234,690	4,362	18.6	2,284	9.7	223	51.1	86	19.7	18	41.3
1936	237,639	4,753	20.0	2,401	10.1	274	57.6	68	14.3	24	50.5
1937	241,614	4,530	18.7	2,430	10.1	252	55.6	96	21.2	17	37.5
1938	244,926	4,946	20.2	2,235	9.1	256	51.8	92	18.6	15	30.3
1939	247,524	4,897	19.8	2,207	8.9	223	45.5	86	17.6	17	34.7
1940	250,742	5,060	20.2	2,141	8.5	237	46.8	101	20.0	22	43.5
1941	247,000	5,185	21.0	2,205	8.9	227	43.8	111	21.4	12	23.1
1942	251,000	5,437	21.7	2,134	8.5	249	45.8	105	19.3	13	23.9
1943	247,000	5,688	23.0	2,227	9.0	213	37.4	117	20.6	9	15.8
1944	242,000	5,612	23.2	2,251	9.3	220	39.2	101	18.0	9	16.0
1945	239,000	5,339	22.3	2,206	9.2	217	40.6	91	17.0	7	13.1
1946	254,000	6,188	24.4	2,135	8.4	205	33.1	110	17.8	10	16.2
1947	258,000	7,320	28.4	2,349	9.1	249	34.0	144	19.7	6	8.2
1948	269,000	7,418	27.6	2,385	8.9	293	39.5	124	16.7	8	10.8
1949	277,000	7,490	27.0	2,385	8.6	280	37.4	124	16.6	3	4.0
1950	292,000	7,606	26.0	2,336	8.0	247	32.5	146	19.2	9	11.8
1951	293,000	8,048	27.5	2,346	8.0	233	29.0	122	15.2	6	7.5
1952	297,000	8,116	27.3	2,503	8.4	262	32.3	116	14.3	2	2.5
1953	295,000	8,760	29.7	2,349	8.0	243	27.7	131	15.0	3	3.4
1954	300,000	8,938	29.8	2,419	8.1	270	30.2	106	11.9	2	2.2
1955	315,000	8,610	27.3	2,453	7.8	242	28.1	108	12.5	4	4.6
1956	321,000	8,389	26.1	2,533	7.9	231	27.5	109	13.0	2	2.4
1957	323,000	8,270	25.6	2,598	8.0	217	26.2	127	15.4	1	1.2
1958	322,000	8,098	25.1	2,528	7.9	225	27.8	125	15.4	3	3.7
1959	325,000	8,189	25.2	2,623	8.1	221	27.0	118	14.4	2	2.4
1960	330,066	8,499	25.7	2,792	8.5	238	28.0	95	11.2	2	2.4
1961	336,000	8,560	25.5	2,635	7.8	230	26.9	111	13.0	1	1.2
1962	332,000	7,984	24.0	2,738	8.2	243	30.4	85	10.6	3	3.8
1963	335,000	7,494	22.4	2,817	8.4	217	29.0	97	12.9	2	2.7
1964	338,000	7,252	21.5	2,842	8.4	209	28.8	91	12.5	2	2.8



**BIRTHS, DEATHS, INFANT DEATHS, STILLBIRTHS, AND MATERNAL DEATHS**  
**WYOMING, 1922 - 1999 (CONTINUED)**

Year	Estimated Population	Births		Deaths		Infant Deaths		Stillbirths		Maternal Deaths	
		Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1965	330,000	6,534	19.8	2,802	8.5	146	22.3	86	13.2	1	1.5
1966	319,000	5,898	18.5	2,655	8.3	142	24.1	76	12.9	1	1.7
1967	322,000	5,540	17.2	2,763	8.6	130	23.5	83	15.0	4	7.2
1968	324,000	5,750	17.7	2,958	9.1	123	21.4	87	15.1	2	3.5
1969	329,000	6,033	18.3	2,934	8.9	165	27.3	97	16.1	-	-
1970	332,416	6,535	19.7	2,927	8.8	131	20.0	82	12.5	1	1.5
1971	339,284	6,156	18.1	3,048	9.0	152	24.7	72	11.7	-	-
1972	350,112	6,011	17.2	3,038	8.7	131	21.8	65	10.8	1	1.7
1973	358,318	6,059	16.9	3,066	8.6	113	18.6	57	9.4	2	3.3
1974	371,630	6,536	17.6	3,133	8.4	106	16.2	79	12.1	-	-
1975	383,644	6,938	18.1	3,072	8.0	120	17.3	75	10.8	2	2.9
1976	397,965	7,367	18.5	3,158	7.9	121	16.4	65	8.8	1	1.4
1977	427,130	8,276	19.4	3,017	7.1	115	13.9	74	8.9	4	4.8
1978	440,878	8,652	19.6	3,112	7.1	113	13.1	67	7.7	3	3.5
1979	454,949	9,768	21.5	3,063	6.7	129	13.2	65	6.7	-	-
1980	469,557	10,546	22.5	3,215	6.8	104	9.9	81	7.7	1	0.9
1981	490,046	10,839	22.1	3,162	6.5	121	11.2	93	8.6	1	0.9
1982	497,297	11,053	22.2	3,183	6.4	109	9.9	92	8.3	1	0.9
1983	498,175	10,254	20.6	3,155	6.3	101	9.8	72	7.0	-	-
1984	500,943	9,753	19.5	3,180	6.3	108	11.1	73	7.5	1	1.0
1985	504,740	9,358	18.5	3,286	6.5	114	12.2	64	6.8	2	2.1
1986	492,191	8,633	17.5	3,217	6.5	94	10.9	59	6.8	-	-
1987	475,191	7,538	15.9	3,038	6.4	69	9.2	57	7.6	2	2.7
1988	463,792	7,163	15.4	3,245	7.0	64	8.9	49	6.8	1	1.4
1989	455,890	6,893	15.1	3,249	7.1	65	9.4	57	8.3	-	-
1990	453,589	6,974	15.4	3,194	7.0	60	8.6	49	7.0	-	-
1991	457,739	6,691	14.6	3,152	6.9	52	7.8	55	8.2	-	-
1992	463,491	6,720	14.5	3,295	7.1	61	9.1	44	6.5	-	-
1993	469,033	6,550	14.0	3,488	7.4	52	7.9	40	6.1	1	1.5
1994	474,982	6,427	13.5	3,481	7.3	44	6.8	39	6.1	-	-
1995	478,447	6,261	13.1	3,720	7.8	48	7.7	34	5.4	-	-
1996	480,085	6,286	13.1	3,604	7.5	40	6.4	48	7.6	-	-
1997	480,031	6,372	13.3	3,740	7.8	37	5.8	27	4.2	-	-
1998	480,045	6,248	13.0	3,847	8.0	44	7.0	24	3.8	-	-
1999	479,602	6,122	12.8	4,038	8.4	42	6.9	33	5.4	-	-

Notes: Data for 1922-1945 is by place of occurrence, 1946-1999 is by place of residence.

Birth and death rates are per 1,000 population.

Infant mortality rates and stillbirth ratios are per 1,000 live births.

Maternal death rates are per 10,000 live births.

Population figures for years ending with a zero are census enumerations.

***NATALITY***

## ***NATALITY***

There were 6,122 births to Wyoming residents in 1999. This was a decrease of 2.0% from the previous year and was the lowest number recorded since 1973. During 1999 resident births decreased in 12 of the state's 23 counties. Counties posting the largest numerical decreases were Park (-49), Sweetwater (-44), Carbon (-36) and Uinta (-31). Teton (+28), Converse (+26), Lincoln (+15) and Sheridan (+14) counties posted the largest increases.

Wyoming's crude birth rate fell to a record low of 12.8 births per 1,000 population, down from 13.0 in 1998. The national crude birth rate rose from 14.5 in 1997 to 14.6 in 1998, and returned to 14.5 in 1999. These rates are the lowest birth rates the country has experienced in 20 years.

Within Wyoming, birth rates were the highest for residents of Uinta (14.5), Campbell (14.3), Laramie (14.0) and Sweetwater (13.8) counties. Rates were lowest in Niobrara (9.3), Johnson (9.3), Weston (9.4) and Carbon (9.8) counties.

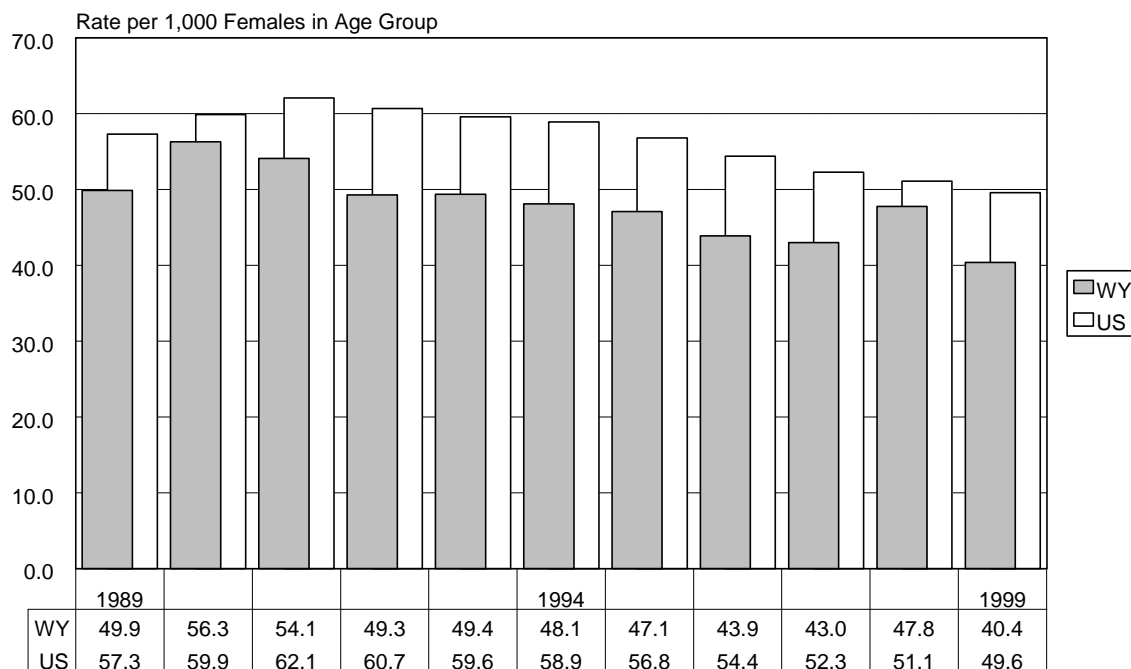
The state's general fertility rate fell from 61.0 births per 1,000 women aged 15 to 44 years to 60.7. This was 7.7% below the U.S. fertility rate of 65.8.

***AGE OF MOTHER*** The median age of resident mothers giving birth increased slightly from 25.5 to 25.6 years. Since 1991 this statistic has varied between 25.5 and 25.9 years.

Births to teen-age mothers fell from 1,014 in 1998 to 850 in 1999. The majority of the decrease occurred for mothers from 18 to 19 years old. The birth rate for women 15 to 19 years old fell from 47.8 births per 1,000 female population to 40.4. The comparable rate for the U.S. was 49.6.

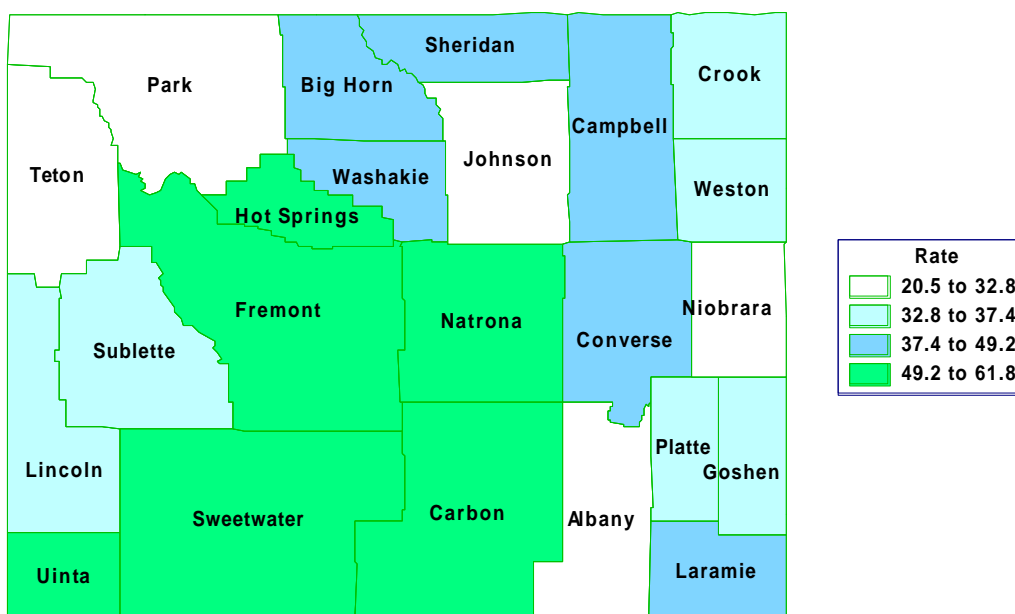
The following chart compares Wyoming and U.S. age specific birth rates for 15 to 19 year old women from 1989 through 1999. Wyoming's rates have remained below U.S. rates over this time period with both state and national rates exhibiting a downward trend beginning in the early 90's. Provisional state data for 2000 indicate a slight increase in this rate.

**BIRTH RATES FOR WOMEN 15 TO 19  
WYOMING AND U.S., 1989 -1999**

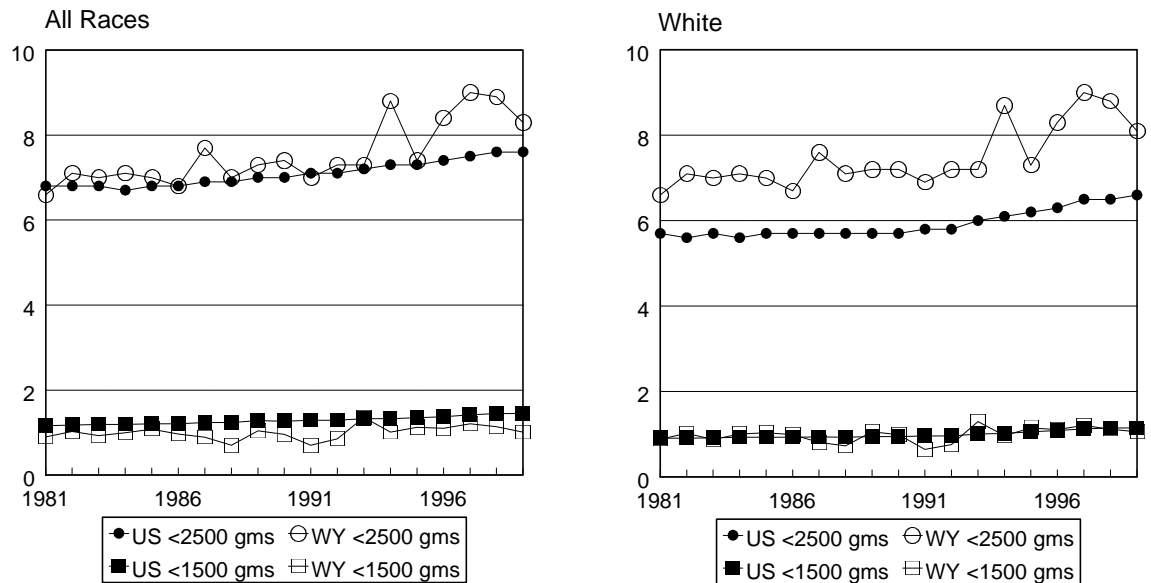


The U.S. rate for 1999 is preliminary.

**BIRTH RATES FOR WOMEN 15 TO 19  
BY COUNTY OF RESIDENCE, WYOMING 1995 - 1999**



**PERCENTAGE OF LOW BIRTHWEIGHT AND VERY LOW BIRTHWEIGHT  
BY RACE OF MOTHER, WYOMING AND U.S., 1981 - 1999**



The U.S. percentages for 1999 are preliminary.

**LOW BIRTHWEIGHT** The number of infants born weighing less than 2500 grams fell from 555 in 1998 to 511 in 1999. The incidence of low birthweight decreased from 8.9% to 8.3%. Nationally, the level of low birthweight remained the same at 7.6%. The disparity between the state and U.S. percentages is much greater when the data is examined by race of mother. The state rate for white mothers was 8.1% compared to a U.S. rate of 6.6%. Since 1997, Wyoming's incidence of low birthweight for white mothers has been the highest in the country.

The state's excess low weight births are in the 1500 to 2499 gram range. Wyoming's percentage of very low birthweight, under 1500 grams, compares favorably to the national. In 1999, 62 very low weight infants were born, 1.01% of the total. The comparable national percentage was 1.45%.

The following table gives the percentage of low birthweight for both total births and singleton births in addition to the percentage of infants who were born in multiple births.

Although Wyoming has experienced an increase in multiple births, that does not appear to be the major factor in the increase in low birthweight in the state.

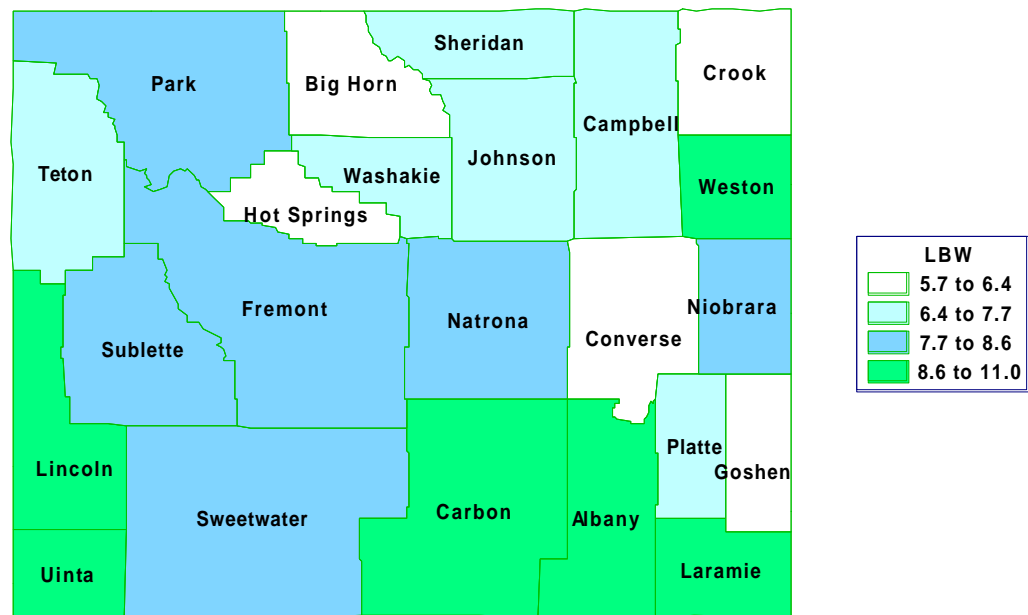
**LOW BIRTHWEIGHT AND MULTIPLE BIRTHS**  
**WYOMING RESIDENTS, 1989 - 1999**

Year	Percentage Low Birthweight		Percentage Multiple Births
	Total Births	Singletons	
1989	7.3	6.5	2.0
1990	7.4	6.2	2.2
1991	7.0	6.2	1.9
1992	7.3	6.4	2.1
1993	7.3	6.2	2.2
1994	8.8	7.5	2.3
1995	7.4	6.4	2.0
1996	8.4	7.0	2.7
1997	9.0	7.4	3.3
1998	8.9	7.5	2.7
1999	8.3	7.3	2.5

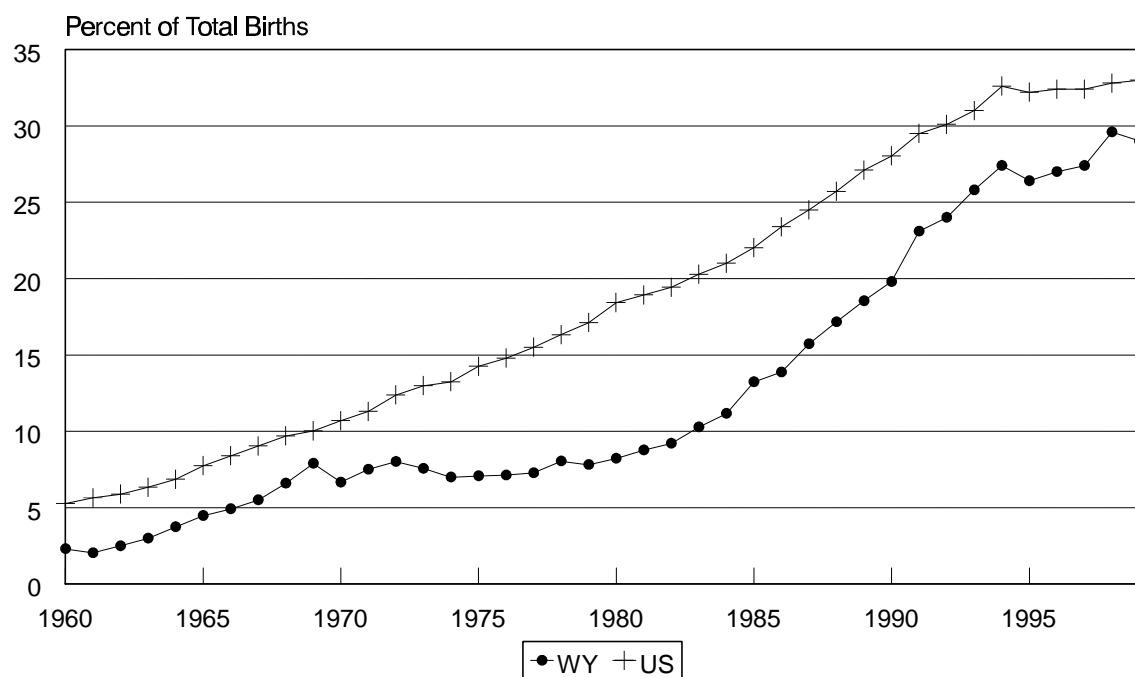
**MARITAL STATUS** The number of births to unmarried mothers fell from 1,848 in 1998 to 1,773 in 1999. The proportion of total births that were to unmarried mothers fell from 29.6% to 29.0%. Births to single mothers accounted for 71% of the births to teens; 36% of the births to women between the ages of 20 and 24; 17% of the births to women 25 to 29 years old; and 11% of the births to women 30 and older.

Fremont (45.3) and Natrona (37.8) counties had significantly higher percentages of births to unmarried mothers than the state as a whole. Albany (20.2), Big Horn (16.9), Crook (11.9), Lincoln (14.8), Sublette (15.4) and Teton (16.8) counties had significantly lower percentages.

Nationally, 33.0% of the births were to unmarried mothers. The difference between state and national percentages is much smaller when the data is examined by race of the mother. For white mothers Wyoming's percentage was 27.1, slightly higher than the U.S. percentage for white mothers of 26.7%.



### WYOMING AND U.S., 1960-1999



The U.S. percentage for 1999 is preliminary.

**PRENATAL CARE** The percentage of Wyoming resident mothers receiving early prenatal care (care beginning in the first trimester of pregnancy) rose from 81.4% in 1998 to 82.9% in 1999. This was still slightly below the record high for the state of 83.2% in 1995. Nationally, the percent of women receiving early prenatal care continued a decade long upward trend, rising to 83.2%.

There were 223 women in the state who either delayed obtaining care until the third trimester or who received no care at all. This was 3.7% of the total births down from 4.1% in 1998. The comparable national figure was 3.8%.

The Adequacy of Prenatal Care Utilization Index (APNCU)<sup>1</sup> is now being widely used as a measure of prenatal care. It takes into account not only the timing of the initiation of care, but also the number of visits and the gestational age of the infant, in order to determine if a mother has received adequate care. This index is based on the recommendations of the American College of Obstetricians and Gynecologists and classifies care as follows:

**Inadequate** - care started after the fourth month or less than 50% of recommended visits

**Intermediate** - care started by the fourth month and 50-79% of recommended visits

**Adequate** - care started by the fourth month and 80-109% of recommended visits

**Intensive** - care started by the fourth month and 110% or more of recommended visits

Using this index, the percentage of Wyoming mothers with at least adequate care rose from 71.7% in 1998 to 73.5% in 1999. Over the same time period, the U.S. percentage increased from 74.3% to 74.7%.

**ADEQUACY OF PRENATAL CARE UTILIZATION INDEX  
WYOMING and U.S., 1999**

	Intensive Use	Adequate	Intermediate	Inadequate or No Care
WY	31.8	41.7	14.5	12.0
US	31.6	43.1	13.6	11.7



**TOBACCO USE** Smoking during pregnancy was reported by 21.1% of Wyoming mothers giving birth in 1999, down from 22.5% in 1998. The state's percentage for 1999 was still above Wyoming's record low of 19.9% set in 1995. In the nation as a whole, fewer women smoke during pregnancy and the number who do has been decreasing each year. In 1999, only 12.6% of U.S. women reported smoking, a 35% decrease since this item was added to the birth certificate in 1989.

**PERCENTAGE OF MOTHERS WHO SMOKED DURING PREGNANCY  
WYOMING RESIDENT BIRTHS, 1999**

<b>AGE</b>		<b>EDUCATION</b>		<b>RACE/ORIGIN</b>	
<18	30.1%	0-8	27.6%	White	20.8%
18-19	32.7%	9-11	44.7%	Black	22.1%
20-29	22.4%	12	27.7%	Am. Indian	29.4%
30-39	12.8%	13-15	14.1%	Other	6.3%
40+	5.6%	16+	3.0%	Hispanic <sup>1</sup>	13.0%

<sup>1</sup>Persons of Hispanic origin may be of any race.

The percentage of mothers who smoked generally decreased with increases in age and education. American Indian women were more likely to smoke than women of other races. Women of Hispanic origin were less likely to smoke than non-Hispanics.

Smoking during pregnancy increases the risk of low birthweight. In 1999, 13.6% of infants born to smokers were low birthweight, compared to 7.0% of the infants born to non-smokers. The average birthweight of infants born to smokers was 233 grams less than that of infants born to non-smokers.

**METHOD OF DELIVERY** During 1999, 19.8% of Wyoming resident births were delivered by cesarean section, up from 18.8% the previous year, and from a low of 18.0% in 1995. National rates are also increasing. The U.S. rate rose from 21.2% in 1998 to 22.0% in 1999.

Older mothers have higher c-section rates. Rates ranged from a low of 16.2% for women aged 15 to 19 years to a high of 34.6% for women 40 and older.

Primary c-sections accounted for 761 of the 1,211 births delivered by c-section. Wyoming's primary c-section rate remained unchanged at 13.8 c-sections per 100 women who had not had a previous cesarean delivery. The comparable rate for the nation was 15.5.

There were 160 vaginal births to women with a previous cesarean delivery. The rate for vaginal births after a previous cesarean delivery (VBAC) continued to fall. It was 26.2 per 100 births to women with a previous cesarean delivery. This was the lowest rate recorded for the state since the method of delivery item was added to the birth certificate in 1989 and was down from a high of 34.3 in 1996. The U.S. VBAC rate fell from 26.3 in 1998 to 23.4 in 1999.

***PLACE OF BIRTH AND ATTENDANT AT BIRTH*** There were 5,763 births which took place within the borders of the state. Of these, 68 were not delivered in a hospital. Physicians delivered 5,569 of the infants born in the state, certified nurse midwives delivered 119, and lay midwives delivered 44.

***RESIDENCE AND OCCURRENCE*** In 1999, 446 Wyoming residents gave birth in other states. Laramie (79), Uinta (68) and Goshen (51) counties had the largest numbers of residents give birth in other states. The majority of these births took place in the surrounding states of Colorado (148), Utah (120), Nebraska (59), South Dakota (54) and Montana (37).

Only 87 residents of other states gave birth in Wyoming. Teton County had the largest number of births to residents of other states with 33.

**BIRTHS AND RATES  
BY COUNTY OF RESIDENCE  
WYOMING, 1995 - 1999**

Residence	1995		1996		1997		1998		1999	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
U.S. Rate	--	14.8	--	14.7	--	14.5	--	14.6	--	14.5
Wyoming	6,261	13.1	6,286	13.1	6,372	13.3	6,248	13.0	6,122	12.8
Albany	391	12.7	396	12.9	387	13.0	355	12.1	352	12.1
Big Horn	151	13.6	152	13.6	150	13.5	145	12.8	148	13.2
Campbell	435	13.8	426	13.3	466	14.5	479	14.8	469	14.3
Carbon	190	11.8	189	11.9	155	9.9	187	12.0	151	9.8
Converse	167	14.0	147	12.1	156	12.7	134	10.9	160	12.9
Crook	70	12.4	72	12.5	50	8.6	62	10.7	59	10.2
Fremont	461	12.9	460	12.8	487	13.5	505	14.0	481	13.3
Goshen	142	11.2	148	11.6	155	12.0	154	12.0	135	10.7
Hot Springs	47	10.2	36	7.8	44	9.4	51	11.0	48	10.7
Johnson	80	12.1	73	10.9	75	11.1	53	7.8	64	9.3
Laramie	1,134	14.5	1,161	14.7	1,177	15.0	1,111	14.1	1,106	14.0
Lincoln	188	13.6	198	14.2	184	13.3	174	12.6	189	13.5
Natrona	898	14.1	887	13.9	845	13.3	833	13.2	846	13.4
Niobrara	23	8.8	36	13.6	26	9.8	25	9.3	25	9.3
Park	281	11.1	277	10.9	310	12.1	309	12.0	260	10.2
Platte	84	10.1	86	10.2	97	11.3	94	10.9	99	11.5
Sheridan	259	10.4	276	11.0	285	11.3	261	10.4	275	11.0
Sublette	74	13.5	55	9.9	65	11.5	57	9.9	65	11.2
Sweetwater	522	12.8	522	13.0	555	14.0	587	14.8	543	13.8
Teton	173	13.0	164	12.1	187	13.5	162	11.4	190	13.1
Uinta	331	16.4	338	16.7	346	17.1	325	15.9	294	14.5
Washakie	96	11.2	97	11.3	103	11.9	100	11.5	102	11.9
Weston	57	8.7	83	12.6	64	9.8	77	11.8	60	9.4
Yellowstone NP	7	--	7	--	3	--	8	--	1	--

**BIRTHS BY SEX, RACE OF MOTHER, ORIGIN OF MOTHER,  
AND COUNTY OF RESIDENCE  
WYOMING, 1999**

Residence	Total	Sex		Race of Mother				
		Male	Female	White	Black	Am Indian	Other	Unknown
Wyoming	6,122	3,182	2,940	5,731	68	266	50	7
Albany	352	184	168	339	5	-	7	1
Big Horn	148	78	70	145	-	2	1	-
Campbell	469	244	225	454	-	11	4	-
Carbon	151	91	60	144	-	6	1	-
Converse	160	90	70	157	-	2	1	-
Crook	59	26	33	58	-	-	1	-
Fremont	481	248	233	305	-	172	3	1
Goshen	135	67	68	131	-	3	-	1
Hot Springs	48	27	21	46	-	1	-	1
Johnson	64	36	28	63	-	1	-	-
Laramie	1,106	593	513	1,031	45	16	13	1
Lincoln	189	93	96	183	-	4	2	-
Natrona	846	426	420	811	9	23	3	-
Niobrara	25	19	6	25	-	-	-	-
Park	260	135	125	258	-	2	-	-
Platte	99	50	49	98	-	1	-	-
Sheridan	275	131	144	264	-	6	5	-
Sublette	65	34	31	63	-	2	-	-
Sweetwater	543	283	260	525	9	5	4	-
Teton	190	89	101	186	-	1	3	-
Uinta	294	152	142	288	-	4	-	2
Washakie	102	58	44	100	-	-	2	-
Weston	60	28	32	56	-	4	-	-
Yellowstone NP	1	-	1	1	-	-	-	-

**BIRTHS BY AGE, RACE, AND ORIGIN OF MOTHER  
AND COUNTY OF RESIDENCE  
WYOMING, 1999**

	Total	Age of Mother										
		<15	15-19			20-24	25-29	30-34	35-39	40-44	45+	Not Stated
			Total	15-17	18-19							
Wyoming	6,122	6	844	275	569	1,978	1,717	991	459	123	4	-
Race												
White	5,731	4	784	251	533	1,847	1,618	931	424	119	4	-
Black	68	-	11	2	9	26	20	7	4	-	-	-
Am Indian	266	2	48	21	27	93	66	37	19	1	-	-
Other	50	-	-	-	-	9	12	16	11	2	-	-
Unknown	7	-	1	1	-	3	1	-	1	1	-	-
Hispanic Origin <sup>1</sup>	532	2	101	42	59	201	129	65	26	8	-	-
Residence												
Albany	352	-	30	6	24	124	91	72	28	7	-	-
Big Horn	148	-	23	13	10	43	40	22	17	3	-	-
Campbell	469	1	61	14	47	153	149	69	25	11	-	-
Carbon	151	-	28	11	17	58	25	26	8	6	-	-
Converse	160	-	23	7	16	60	44	18	12	3	-	-
Crook	59	-	7	1	6	21	17	5	5	4	-	-
Fremont	481	2	89	38	51	155	117	70	38	10	-	-
Goshen	135	-	20	7	13	39	47	16	12	1	-	-
Hot Springs	48	-	7	1	6	12	14	10	4	1	-	-
Johnson	64	-	8	4	4	22	22	6	4	2	-	-
Laramie	1,106	2	132	37	95	348	318	212	72	22	-	-
Lincoln	189	-	22	7	15	60	55	31	11	8	2	-
Natrona	846	-	135	45	90	284	228	121	64	14	-	-
Niobrara	25	-	3	1	2	9	7	3	2	1	-	-
Park	260	-	29	7	22	69	79	51	31	1	-	-
Platte	99	-	14	7	7	30	33	17	4	1	-	-
Sheridan	275	-	34	7	27	95	84	35	22	5	-	-
Sublette	65	-	7	-	7	15	18	19	6	-	-	-
Sweetwater	543	1	87	24	63	206	135	77	28	8	1	-
Teton	190	-	8	3	5	27	48	53	40	13	1	-
Uinta	294	-	61	27	34	87	96	35	14	1	-	-
Washakie	102	-	12	6	6	41	30	14	5	-	-	-
Weston	60	-	4	2	2	20	20	8	7	1	-	-
Yellowstone NP	1	-	-	-	-	-	-	1	-	-	-	-

<sup>1</sup>Included in appropriate race totals.

**BIRTHS TO UNMARRIED MOTHERS BY AGE, RACE, AND  
ORIGIN OF MOTHER, AND COUNTY OF RESIDENCE  
WYOMING, 1999**

	Total	Age of Mother										
		<15	15-19			20-24	25-29	30-34	35-39	40-44	45+	Not Stated
			Total	15-17	18-19							
Wyoming	1,773	6	594	237	357	709	285	107	61	11	-	-
Race												
White	1,554	4	541	214	327	620	240	85	53	11	-	-
Black	37	-	8	2	6	17	8	3	1	-	-	-
Indian	174	2	44	20	24	67	36	18	7	-	-	-
Other	7	-	-	-	-	5	1	1	-	-	-	-
Unknown	1	-	1	1	-	-	-	-	-	-	-	-
Hispanic Origin <sup>1</sup>	213	2	74	38	36	90	31	8	7	1	-	-
Residence												
Albany	71	-	24	6	18	30	6	5	6	-	-	-
Big Horn	25	-	12	8	4	6	4	2	1	-	-	-
Campbell	137	1	44	13	31	57	22	9	3	1	-	-
Carbon	52	-	17	9	8	22	6	6	1	-	-	-
Converse	41	-	18	7	11	14	5	1	3	-	-	-
Crook	7	-	3	1	2	3	1	-	-	-	-	-
Fremont	218	2	67	33	34	76	44	20	7	2	-	-
Goshen	33	-	16	6	10	13	2	-	2	-	-	-
Hot Springs	8	-	3	1	2	4	1	-	-	-	-	-
Johnson	17	-	8	4	4	6	2	-	-	1	-	-
Laramie	295	2	91	30	61	122	49	19	8	4	-	-
Lincoln	28	-	11	6	5	12	4	1	-	-	-	-
Natrona	320	-	111	41	70	135	44	17	11	2	-	-
Niobrara	10	-	2	1	1	4	3	1	-	-	-	-
Park	67	-	24	7	17	18	15	4	6	-	-	-
Platte	26	-	10	6	4	11	5	-	-	-	-	-
Sheridan	78	-	20	7	13	38	15	3	1	1	-	-
Sublette	10	-	3	-	3	4	1	1	1	-	-	-
Sweetwater	174	1	53	19	34	81	26	11	2	-	-	-
Teton	32	-	7	3	4	8	11	2	4	-	-	-
Uinta	84	-	39	22	17	26	15	2	2	-	-	-
Washakie	25	-	8	5	3	13	1	2	1	-	-	-
Weston	15	-	3	2	1	6	3	1	2	-	-	-
Yellowstone NP	-	-	-	-	-	-	-	-	-	-	-	-

<sup>1</sup>Included in appropriate race totals.

**LOW WEIGHT BIRTHS  
BY COUNTY OF RESIDENCE  
WYOMING, 1995 - 1999**

Residence	1995		1996		1997		1998		1999		1995-1999
	No.	Percent	No.	Percent	No.	Percent	No.	Percent	No.	Percent	Percent
U.S. Percent	--	7.3	--	7.4	--	7.5	--	7.6	--	7.6	7.5
Wyoming	464	7.4	530	8.4	572	9.0	555	8.9	511	8.3	8.4
Albany	37	9.5	41	10.4	44	11.4	44	12.4	27	7.7	10.3
Big Horn	7	4.6	7	4.6	10	6.7	11	7.6	9	6.1	5.9
Campbell	33	7.6	26	6.1	40	8.6	35	7.3	29	6.2	7.2
Carbon	15	7.9	14	7.4	17	11.0	17	9.1	13	8.6	8.7
Converse	20	12.0	5	3.4	6	3.8	9	6.7	7	4.4	6.2
Crook	5	7.1	2	2.8	3	6.0	4	6.5	4	6.8	5.8
Fremont	25	5.4	44	9.6	35	7.2	47	9.3	47	9.8	8.3
Goshen	15	10.6	8	5.4	7	4.5	8	5.2	4	3.0	5.7
Hot Springs	4	8.5	1	2.8	2	4.5	2	3.9	5	10.4	6.2
Johnson	3	3.8	6	8.2	6	8.0	2	3.8	6	9.4	6.7
Laramie	83	7.3	126	10.9	139	11.8	103	9.3	106	9.6	9.8
Lincoln	15	8.0	17	8.6	16	8.7	15	8.6	18	9.5	8.7
Natrona	69	7.7	70	7.9	71	8.4	61	7.3	75	8.9	8.0
Niobrara	1	4.3	6	16.7	2	7.7	1	4.0	1	4.0	8.1
Park	8	2.8	24	8.7	29	9.4	31	10.0	29	11.2	8.4
Platte	5	6.0	6	7.0	9	9.3	5	5.3	8	8.1	7.2
Sheridan	20	7.7	15	5.4	20	7.0	20	7.7	16	5.8	6.7
Sublette	7	9.5	4	7.3	4	6.2	7	12.3	5	7.7	8.5
Sweetwater	43	8.2	44	8.4	42	7.6	61	10.4	44	8.1	8.6
Teton	7	4.0	11	6.7	14	7.5	17	10.5	15	7.9	7.3
Uinta	31	9.4	37	10.9	45	13.0	37	11.4	30	10.2	11.0
Washakie	6	6.3	8	8.2	5	4.9	12	12.0	6	5.9	7.4
Weston	5	8.8	8	9.6	6	9.4	6	7.8	7	11.7	9.4
Yellowstone NP	-	0.0	-	0.0	-	0.0	-	0.0	-	0.0	0.0

Note: Low weight births are those weighing less than 2500 grams.

**LOW WEIGHT BIRTHS BY AGE OF MOTHER,  
AND COUNTY OF RESIDENCE  
WYOMING, 1999**

Residence	Total	Age of Mother										
		<15	15-19			20-24	25-29	30-34	35-39	40-44	45+	Not Stated
			Total	15-17	18-19							
Wyoming	511	1	90	34	56	162	140	72	34	11	1	-
Albany	27	-	2	-	2	6	13	4	2	-	-	-
Big Horn	9	-	-	-	-	4	2	3	-	-	-	-
Campbell	29	-	3	-	3	8	9	5	3	1	-	-
Carbon	13	-	5	2	3	4	1	3	-	-	-	-
Converse	7	-	3	1	2	2	2	-	-	-	-	-
Crook	4	-	-	-	-	3	-	-	1	-	-	-
Fremont	47	-	10	4	6	21	9	5	1	1	-	-
Goshen	4	-	-	-	-	2	-	1	1	-	-	-
Hot Springs	5	-	1	-	1	2	-	-	1	1	-	-
Johnson	6	-	-	-	-	3	1	2	-	-	-	-
Laramie	106	-	23	9	14	33	31	11	4	4	-	-
Lincoln	18	-	3	1	2	5	4	2	2	2	-	-
Natrona	75	-	15	5	10	22	20	13	4	1	-	-
Niobrara	1	-	-	-	-	1	-	-	-	-	-	-
Park	29	-	4	1	3	10	10	3	2	-	-	-
Platte	8	-	1	1	-	2	4	1	-	-	-	-
Sheridan	16	-	3	1	2	5	4	3	1	-	-	-
Sublette	5	-	1	-	1	-	2	1	1	-	-	-
Sweetwater	44	1	7	4	3	18	9	7	1	1	-	-
Teton	15	-	-	-	-	-	4	4	6	-	1	-
Uinta	30	-	8	4	4	8	10	3	1	-	-	-
Washakie	6	-	-	-	-	1	3	1	1	-	-	-
Weston	7	-	1	1	-	2	2	-	2	-	-	-
Yellowstone NP	-	-	-	-	-	-	-	-	-	-	-	-

Note: Low weight births are those weighing less than 2500 grams.



**LOW WEIGHT BIRTHS BY AGE OF MOTHER,  
AND COUNTY OF RESIDENCE  
WYOMING, 1999**

Residence	Total	Age of Mother										
		<15	15-19			20-24	25-29	30-34	35-39	40-44	45+	Not Stated
			Total	15-17	18-19							
Wyoming	511	1	90	34	56	162	140	72	34	11	1	-
Albany	27	-	2	-	2	6	13	4	2	-	-	-
Big Horn	9	-	-	-	-	4	2	3	-	-	-	-
Campbell	29	-	3	-	3	8	9	5	3	1	-	-
Carbon	13	-	5	2	3	4	1	3	-	-	-	-
Converse	7	-	3	1	2	2	2	-	-	-	-	-
Crook	4	-	-	-	-	3	-	-	1	-	-	-
Fremont	47	-	10	4	6	21	9	5	1	1	-	-
Goshen	4	-	-	-	-	2	-	1	1	-	-	-
Hot Springs	5	-	1	-	1	2	-	-	1	1	-	-
Johnson	6	-	-	-	-	3	1	2	-	-	-	-
Laramie	106	-	23	9	14	33	31	11	4	4	-	-
Lincoln	18	-	3	1	2	5	4	2	2	2	-	-
Natrona	75	-	15	5	10	22	20	13	4	1	-	-
Niobrara	1	-	-	-	-	1	-	-	-	-	-	-
Park	29	-	4	1	3	10	10	3	2	-	-	-
Platte	8	-	1	1	-	2	4	1	-	-	-	-
Sheridan	16	-	3	1	2	5	4	3	1	-	-	-
Sublette	5	-	1	-	1	-	2	1	1	-	-	-
Sweetwater	44	1	7	4	3	18	9	7	1	1	-	-
Teton	15	-	-	-	-	-	4	4	6	-	1	-
Uinta	30	-	8	4	4	8	10	3	1	-	-	-
Washakie	6	-	-	-	-	1	3	1	1	-	-	-
Weston	7	-	1	1	-	2	2	-	2	-	-	-
Yellowstone NP	-	-	-	-	-	-	-	-	-	-	-	-

Note: Low weight births are those weighing less than 2500 grams.

**BIRTHS BY WEIGHT AT BIRTH  
BY COUNTY OF RESIDENCE  
WYOMING, 1999**

Residence	Total	Low Weight <sup>1</sup>		Weight in Grams							
		Number	Percent	Under 500	500- 999	1000- 1499	1500- 1999	2000- 2499	2500- 4499	4500+	Unknown
Wyoming	6,122	511	8.3	11	21	30	83	366	5,564	46	1
Albany	352	27	7.7	-	1	-	8	18	324	1	-
Big Horn	148	9	6.1	-	-	1	4	4	138	1	-
Campbell	469	29	6.2	1	3	1	8	16	437	3	-
Carbon	151	13	8.6	-	-	1	2	10	137	1	-
Converse	160	7	4.4	1	-	2	1	3	148	5	-
Crook	59	4	6.8	-	1	-	-	3	55	-	-
Fremont	481	47	9.8	1	1	1	6	38	430	4	-
Goshen	135	4	3.0	-	-	1	-	3	127	4	-
Hot Springs	48	5	10.4	-	-	-	1	4	43	-	-
Johnson	64	6	9.4	-	-	2	1	3	57	1	-
Laramie	1,106	106	9.6	2	5	10	16	73	991	9	-
Lincoln	189	18	9.5	-	-	1	3	14	170	1	-
Natrona	846	75	8.9	1	4	3	8	59	764	7	-
Niobrara	25	1	4.0	-	-	-	-	1	23	1	-
Park	260	29	11.2	1	1	1	4	22	229	2	-
Platte	99	8	8.1	-	1	-	-	7	91	-	-
Sheridan	275	16	5.8	-	1	2	3	10	257	2	-
Sublette	65	5	7.7	-	-	-	1	4	60	-	-
Sweetwater	543	44	8.1	1	3	3	10	27	496	3	-
Teton	190	15	7.9	-	-	-	1	14	175	-	-
Uinta	294	30	10.2	1	-	1	6	22	262	1	1
Washakie	102	6	5.9	-	-	-	-	6	96	-	-
Weston	60	7	11.7	2	-	-	-	5	53	-	-
Yellowstone NP	1	-	0.0	-	-	-	-	-	1	-	-

<sup>1</sup>Low weight births are those weighing less than 2500 grams.

**BIRTHS BY LIVE BIRTH ORDER  
BY COUNTY OF RESIDENCE  
WYOMING, 1999**

Residence	Total	Live Birth Order						
		1st	2nd	3rd	4th	5th	6th & Over	Unknown
Wyoming	6,122	2,466	1,954	1,034	404	154	107	3
Albany	352	162	122	39	18	6	5	-
Big Horn	148	44	42	38	14	6	4	-
Campbell	469	176	160	77	34	9	13	-
Carbon	151	74	33	29	9	5	1	-
Converse	160	62	52	32	7	5	2	-
Crook	59	24	15	12	4	1	3	-
Fremont	481	180	137	87	37	18	22	-
Goshen	135	54	40	23	14	-	4	-
Hot Springs	48	19	16	8	5	-	-	-
Johnson	64	27	19	12	3	3	-	-
Laramie	1,106	466	349	175	72	27	17	-
Lincoln	189	59	54	37	21	13	4	1
Natrona	846	333	291	142	51	17	12	-
Niobrara	25	9	8	6	2	-	-	-
Park	260	92	98	38	21	7	4	-
Platte	99	42	33	16	5	3	-	-
Sheridan	275	120	90	46	9	5	5	-
Sublette	65	28	23	7	6	1	-	-
Sweetwater	543	229	168	100	33	7	6	-
Teton	190	97	64	15	11	3	-	-
Uinta	294	97	96	62	19	14	4	2
Washakie	102	50	27	17	5	3	-	-
Weston	60	22	16	16	4	1	1	-
Yellowstone NP	1	-	1	-	-	-	-	-

**BIRTHS BY AGE OF MOTHER  
BY LIVE BIRTH ORDER  
WYOMING, 1999**

Age of Mother	Total	Live Birth Order						
		1st	2nd	3rd	4th	5th	6th & Over	Unknown
Total	6,122	2,466	1,954	1,034	404	154	107	3
Under 15	6	6	-	-	-	-	-	-
15-19	844	692	135	16	1	-	-	-
15-17	275	256	19	-	-	-	-	-
18-19	569	436	116	16	1	-	-	-
20-24	1,978	886	729	287	57	17	1	1
25-29	1,717	541	615	382	125	40	14	-
30-34	991	237	315	226	125	50	37	1
35-39	459	83	124	99	79	37	36	1
40-44	123	20	35	24	16	10	18	-
45+	4	1	1	-	1	-	1	-
Not Stated	-	-	-	-	-	-	-	-

**BIRTHS BY ONE-MINUTE  
BY FIVE-MINUTE APGAR SCORE  
WYOMING, 1999**

One-Minute Score	Total	Five-Minute Score											
		0	1	2	3	4	5	6	7	8	9	10	Not Stated
Total	6,122	5	11	2	8	8	18	47	111	685	4,466	727	34
0	3	3	-	-	-	-	-	-	-	-	-	-	-
1	37	1	8	-	6	5	3	4	2	5	3	-	-
2	46	1	2	1	1	1	7	8	12	10	3	-	-
3	65	-	-	1	-	1	4	14	12	19	14	-	-
4	101	-	-	-	1	-	-	10	22	33	35	-	-
5	113	-	-	-	-	-	2	5	23	47	35	1	-
6	230	-	1	-	-	-	-	3	27	113	81	5	-
7	792	-	-	-	-	-	-	2	9	255	513	12	1
8	2,971	-	-	-	-	-	1	1	2	198	2,637	132	-
9	1,672	-	-	-	-	1	-	-	1	5	1,144	521	-
10	57	-	-	-	-	-	1	-	-	-	-	56	-
Not Stated	35	-	-	-	-	-	-	-	1	-	1	-	33

**BIRTHS BY TRIMESTER PRENATAL CARE BEGAN  
BY COUNTY OF RESIDENCE  
WYOMING, 1999**

Residence	Total	Trimester Prenatal Care Began				
		1st	2nd	3rd	No Care	Not Stated
Wyoming	6,122	5,042	814	153	70	43
Albany	352	282	51	12	3	4
Big Horn	148	124	20	3	1	-
Campbell	469	377	79	10	2	1
Carbon	151	124	24	2	1	-
Converse	160	126	24	3	4	3
Crook	59	53	3	3	-	-
Fremont	481	368	77	23	1	12
Goshen	135	118	11	3	2	1
Hot Springs	48	45	2	-	-	1
Johnson	64	54	8	2	-	-
Laramie	1,106	897	151	26	24	8
Lincoln	189	157	24	2	4	2
Natrona	846	731	85	20	9	1
Niobrara	25	17	7	1	-	-
Park	260	214	36	6	4	-
Platte	99	74	19	1	5	-
Sheridan	275	247	25	2	1	-
Sublette	65	54	11	-	-	-
Sweetwater	543	426	88	23	3	3
Teton	190	173	14	2	1	-
Uinta	294	246	31	8	2	7
Washakie	102	93	7	-	2	-
Weston	60	41	17	1	1	-
Yellowstone NP	1	1	-	-	-	-

**BIRTHS BY AGE OF MOTHER  
BY TRIMESTER PRENATAL CARE BEGAN  
WYOMING, 1999**

Age of Mother	Total	Trimester Prenatal Care Began				
		1st	2nd	3rd	No Care	Not Stated
Total	6,122	5,042	814	153	70	43
Under 15	6	3	2	1	-	-
15-19	844	608	179	36	9	12
15-17	275	182	75	16	1	1
18-19	569	426	104	20	8	11
20-24	1,978	1,585	307	57	15	14
25-29	1,717	1,473	182	39	16	7
30-34	991	874	84	14	13	6
35-39	459	391	45	5	16	2
40-44	123	106	14	1	1	1
45+	4	2	1	-	-	1
Unknown	-	-	-	-	-	-

**BIRTHS BY EDUCATION OF MOTHER  
BY TRIMESTER PRENATAL CARE BEGAN  
WYOMING, 1999**

Education in Years	Total	Trimester Prenatal Care Began				
		1st	2nd	3rd	No Care	Not Stated
Total	6,122	5,042	814	153	70	43
0-8	105	66	25	6	6	2
9-11	861	609	189	43	10	10
12	2,067	1,669	295	64	21	18
13-15	1,836	1,550	225	32	22	7
16	754	705	39	4	5	1
17+	465	420	32	4	6	3
Unknown	34	23	9	-	-	2

**ADEQUACY OF PRENATAL CARE UTILIZATION INDEX  
BY COUNTY OF RESIDENCE  
WYOMING, 1999**

Residence	Total	APNCU Index					
		Intensive	Adequate	Intermediate	Inadequate	No Care	Unknown
Wyoming	6,122	1,922	2,518	877	657	70	78
Albany	352	144	146	19	36	3	4
Big Horn	148	44	70	14	18	1	1
Campbell	469	178	195	43	50	2	1
Carbon	151	38	62	29	21	1	-
Converse	160	38	77	19	19	4	3
Crook	59	21	22	12	4	-	-
Fremont	481	174	164	48	73	1	21
Goshen	135	25	63	26	10	2	9
Hot Springs	48	9	21	15	2	-	1
Johnson	64	14	28	12	8	-	2
Laramie	1,106	340	378	229	119	24	16
Lincoln	189	43	100	26	14	4	2
Natrona	846	164	359	210	100	9	4
Niobrara	25	7	5	7	6	-	-
Park	260	110	96	22	27	4	1
Platte	99	39	38	6	10	5	1
Sheridan	275	149	95	18	12	1	-
Sublette	65	15	37	5	8	-	-
Sweetwater	543	162	267	36	70	3	5
Teton	190	80	84	16	9	1	-
Uinta	294	69	159	33	24	2	7
Washakie	102	37	36	20	7	2	-
Weston	60	22	16	11	10	1	-
Yellowstone NP	1	-	-	1	-	-	-



**BIRTHS BY EDUCATION OF MOTHER  
BY COUNTY OF RESIDENCE  
WYOMING, 1999**

Residence	Total	Education in Years						
		0-8	9-11	12	13-15	16	17+	Not Stated
Wyoming	6,122	105	861	2,067	1,836	754	465	34
Albany	352	2	19	74	107	75	71	4
Big Horn	148	4	21	49	44	19	11	-
Campbell	469	4	62	178	135	58	31	1
Carbon	151	3	33	55	27	19	12	2
Converse	160	3	16	68	49	14	9	1
Crook	59	1	2	24	17	10	5	-
Fremont	481	15	91	161	152	35	20	7
Goshen	135	2	14	38	60	11	9	1
Hot Springs	48	-	6	18	13	4	7	-
Johnson	64	-	8	20	23	7	5	1
Laramie	1,106	14	130	395	359	125	81	2
Lincoln	189	2	19	78	55	25	8	2
Natrona	846	10	137	294	257	100	48	-
Niobrara	25	-	2	11	9	2	1	-
Park	260	2	33	65	90	44	25	1
Platte	99	1	15	40	27	6	10	-
Sheridan	275	2	38	74	102	41	17	1
Sublette	65	-	7	17	20	11	10	-
Sweetwater	543	11	103	194	143	61	28	3
Teton	190	5	18	31	37	56	36	7
Uinta	294	21	56	117	75	18	6	1
Washakie	102	2	20	48	20	7	5	-
Weston	60	1	11	18	15	5	10	-
Yellowstone NP	1	-	-	-	-	1	-	-

**BIRTHS TO MOTHERS WHO SMOKED DURING PREGNANCY,  
BY COUNTY OF RESIDENCE  
WYOMING, 1995 - 1999**

Residence	1995	1996	1997	1998	1999	Percent 95-99
Wyoming	1,239	1,270	1,298	1,402	1,289	20.8
Albany	43	32	36	33	28	9.1
Big Horn	13	18	34	17	21	13.8
Campbell	115	115	134	136	132	27.8
Carbon	42	39	42	45	35	23.3
Converse	43	37	34	34	37	24.2
Crook	15	9	10	11	13	18.5
Fremont	107	119	108	156	112	25.1
Goshen	24	29	23	27	25	17.4
Hot Springs	8	6	13	12	9	21.2
Johnson	18	18	6	11	15	19.7
Laramie	172	186	213	206	182	16.9
Lincoln	27	23	20	25	28	13.2
Natrona	228	236	225	245	229	27.0
Niobrara	5	7	7	4	9	23.7
Park	36	51	46	63	43	16.6
Platte	14	13	19	28	21	20.7
Sheridan	56	55	59	58	69	21.9
Sublette	16	11	9	17	7	19.0
Sweetwater	136	131	145	155	154	26.4
Teton	19	12	7	12	12	7.1
Uinta	72	86	76	74	73	23.3
Washakie	14	19	13	13	15	14.9
Weston	16	18	19	20	20	27.3
Yellowstone NP	-	-	-	-	-	0.0

**BIRTHS TO MOTHERS WHO SMOKED DURING PREGNANCY,  
BY AGE OF MOTHER AND COUNTY OF RESIDENCE  
WYOMING, 1999**

[illegible]

**BIRTHS BY MATERNAL WEIGHT GAIN DURING PREGNANCY  
BY COUNTY OF RESIDENCE  
WYOMING, 1999**

Residence	Total	Weight Gain in Pounds								
		Under 16	16-20	21-25	26-30	31-35	36-40	41-45	46+	Unknown
Wyoming	6,122	643	629	777	1,115	904	810	414	682	148
Albany	352	26	34	47	71	47	44	24	32	27
Big Horn	148	14	16	18	29	20	21	7	19	4
Campbell	469	54	52	52	92	74	58	33	50	4
Carbon	151	17	17	9	27	24	19	9	20	9
Converse	160	22	14	21	27	19	20	21	14	2
Crook	59	8	7	8	13	9	8	4	2	-
Fremont	481	54	52	64	67	68	69	33	60	14
Goshen	135	8	13	16	29	24	20	5	17	3
Hot Springs	48	4	3	11	10	6	4	4	5	1
Johnson	64	8	6	13	11	9	5	1	7	4
Laramie	1,106	150	107	143	167	155	135	78	137	34
Lincoln	189	20	12	30	28	29	30	7	20	13
Natrona	846	81	104	100	174	121	120	47	95	4
Niobrara	25	3	4	2	3	4	1	-	6	2
Park	260	20	30	33	54	41	27	19	29	7
Platte	99	10	11	19	15	12	18	5	8	1
Sheridan	275	35	23	43	45	47	36	20	25	1
Sublette	65	1	5	9	17	10	12	4	7	-
Sweetwater	543	50	57	59	105	77	77	40	65	13
Teton	190	14	14	24	34	44	30	14	15	1
Uinta	294	32	36	30	63	39	38	28	25	3
Washakie	102	6	8	18	25	14	11	6	13	1
Weston	60	6	4	8	8	11	7	5	11	-
Yellowstone NP	1	-	-	-	1	-	-	-	-	-

**BIRTHS BY METHOD OF DELIVERY  
BY COUNTY OF RESIDENCE  
WYOMING, 1999**

Residence	Total	Vaginal		Cesarean			Not Stated
		Total	VBAC <sup>1</sup>	Total	Primary	Repeat	
Wyoming	6,122	4,910	160	1,211	761	450	1
Albany	352	281	12	71	49	22	-
Big Horn	148	129	3	19	9	10	-
Campbell	469	374	13	95	60	35	-
Carbon	151	111	1	40	28	12	-
Converse	160	127	4	33	23	10	-
Crook	59	52	3	7	3	4	-
Fremont	481	375	19	106	60	46	-
Goshen	135	108	2	27	16	11	-
Hot Springs	48	28	-	20	12	8	-
Johnson	64	47	1	17	11	6	-
Laramie	1,106	909	34	197	136	61	-
Lincoln	189	160	6	29	18	11	-
Natrona	846	688	13	158	99	59	-
Niobrara	25	19	1	6	5	1	-
Park	260	208	4	52	28	24	-
Platte	99	79	1	20	12	8	-
Sheridan	275	210	4	65	46	19	-
Sublette	65	53	-	12	8	4	-
Sweetwater	543	474	20	68	41	27	1
Teton	190	141	4	49	30	19	-
Uinta	294	225	7	69	30	39	-
Washakie	102	68	5	34	26	8	-
Weston	60	43	3	17	11	6	-
Yellowstone NP	1	1	-	-	-	-	-

<sup>1</sup>Vaginal birth after a previous cesarean section.

**BIRTHS WITH REPORTED CONGENITAL ANOMALIES**  
**WYOMING RESIDENTS, 1995 - 1999**

	1995	1996	1997	1998	1999
Births with one or more anomalies	130	130	139	128	135
Anencephalus	-	-	-	-	-
Spina bifida / Meningocele	2	6	3	-	5
Hydrocephalus	-	2	-	4	5
Microcephalus	1	1	1	1	5
Other central nervous system anomalies	3	5	1	1	5
Heart malformations	11	10	15	7	12
Other circulatory/respiratory anomalies	15	13	9	7	5
Rectal atresia/stenosis	2	3	1	2	2
Tracheo-esophageal fistula/Esophageal atresia	2	3	1	2	1
Omphalocele/Gastroschisis	4	4	3	4	5
Other gastrointestinal anomalies	2	9	4	2	4
Malformed genitalia	10	13	18	25	28
Renal agenesis	2	-	-	-	1
Other urogenital anomalies	24	10	11	13	13
Cleft lip/palate	11	6	6	13	8
Polydactyly/Syndactyly/Adactyly	5	5	6	7	6
Club foot	7	5	6	8	3
Diaphragmatic hernia	2	2	2	2	-
Other musculoskeletal/Integumental anomalies	17	28	34	28	24
Down's syndrome	2	6	1	2	4
Other chromosomal anomalies	4	2	5	1	3
Other	23	25	26	22	24

Note: Columns will not add to total because of births with more than one reported anomaly.

**BIRTHS BY COUNTY OF OCCURRENCE,  
ATTENDANT, AND PLACE OF DELIVERY  
WYOMING, 1999**

Occurrence	Total	Attendant		Place of Delivery	
		Physician	Other	Hospital	Other
Wyoming	5,763	5,569	194	5,695	68
Albany	369	368	1	368	1
Big Horn	2	-	2	-	2
Campbell	480	473	7	477	3
Carbon	115	115	-	115	-
Converse	90	87	3	87	3
Crook	-	-	-	-	-
Fremont	478	406	72	477	1
Goshen	109	105	4	105	4
Hot Springs	40	40	-	40	-
Johnson	62	61	1	61	1
Laramie	1,072	1,051	21	1,050	22
Lincoln	123	119	4	119	4
Natrona	878	868	10	868	10
Niobrara	-	-	-	-	-
Park	370	362	8	366	4
Platte	76	72	4	72	4
Sheridan	280	279	1	279	1
Sublette	2	-	2	-	2
Sweetwater	520	518	2	518	2
Teton	317	269	48	317	-
Uinta	229	228	1	228	1
Washakie	110	108	2	108	2
Weston	41	40	1	40	1
Yellowstone NP	-	-	-	-	-

**BIRTH TRAVEL PATTERNS  
BY COUNTY OF RESIDENCE BY COUNTY OF OCCURRENCE  
WYOMING, 1999**

Residence	Total	Occurrence																								
		Albany	Big Horn	Campbell	Carbon	Converse	Crook	Fremont	Goshen	Hot Springs	Johnson	Laramie	Lincoln	Natrona	Niobrara	Park	Platte	Sheridan	Sublette	Sweetwater	Teton	Uinta	Washakie	Weston	Yellowstone	Out of State
Total	--	369	2	480	115	90	-	478	109	40	62	1,072	123	878	-	370	76	280	2	520	317	229	110	41	-	446
Albany	352	319	-	-	1	-	-	1	-	-	-	11	1	1	-	-	-	-	-	-	-	-	-	-	-	18
Big Horn	148	-	2	-	-	-	-	1	-	4	-	-	-	-	-	114	-	1	-	-	-	-	17	-	-	9
Campbell	469	1	-	444	-	-	-	-	-	-	4	-	-	1	-	-	1	4	-	-	-	-	1	1	-	12
Carbon	151	33	-	-	108	-	-	1	-	-	-	2	-	2	-	-	-	-	-	-	-	-	-	-	-	5
Converse	160	-	-	1	-	86	-	-	1	-	1	1	-	52	-	-	11	-	-	1	-	-	-	-	-	6
Crook	59	-	-	20	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	37
Fremont	481	-	-	-	-	-	-	463	-	1	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	15
Goshen	135	2	-	-	-	-	-	-	77	-	-	4	-	-	-	-	1	-	-	-	-	-	-	-	-	51
Hot Springs	48	-	-	-	-	-	-	8	-	29	-	-	-	1	-	2	-	-	-	-	-	-	6	-	-	2
Johnson	64	-	-	-	-	-	-	-	-	-	47	-	-	2	-	-	-	12	-	-	-	-	-	-	-	3
Laramie	1,106	4	-	-	-	-	-	-	1	-	-	1,022	-	-	-	-	-	-	-	-	-	-	-	-	-	79
Lincoln	189	-	-	-	-	-	-	-	-	-	-	-	114	-	-	-	-	-	-	4	35	8	-	-	-	28
Natrona	846	1	-	1	1	-	-	2	1	1	2	-	-	812	-	1	1	3	-	-	-	-	1	-	-	19
Niobrara	25	-	-	-	-	3	-	-	12	-	-	-	-	1	-	-	1	-	-	-	-	-	-	1	-	7
Park	260	-	-	-	-	-	-	1	-	-	-	-	-	-	-	244	-	-	-	-	-	-	-	-	-	15
Platte	99	3	-	-	-	1	-	-	7	-	-	17	-	3	-	-	60	-	-	-	-	-	-	-	-	8
Sheridan	275	1	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	255	-	-	-	-	-	-	-	11
Sublette	65	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	2	3	56	1	-	-	-	1
Sweetwater	543	-	-	-	5	-	-	-	2	-	-	-	1	-	-	-	-	-	-	498	3	2	-	-	-	32
Teton	190	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	187	-	-	-	-	3
Uinta	294	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	8	1	213	-	-	-	68
Washakie	102	-	-	-	-	-	-	-	-	5	-	-	-	1	-	8	-	-	-	1	-	-	84	-	-	3
Weston	60	-	-	9	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	37	-	-	13
Yellowstone	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out of State	87	5	-	5	-	-	-	-	6	-	-	15	2	2	-	1	1	5	-	5	33	5	1	1	-	--

Rows - The total indicates the number of births to residents of a particular county. The entries in the row indicate the counties in which these births occurred.

Columns - The total indicates the number of births which occurred in a particular county. The entries in the column indicate the county of residence of the mother.



**BIRTHS BY COUNTY OF RESIDENCE  
AND COUNTY OF OCCURRENCE  
WYOMING, 1995 - 1999**

County	1995		1996		1997		1998		1999	
	Res	Occ	Res	Occ	Res	Occ	Res	Occ	Res	Occ
Wyoming	6,261	5,855	6,286	5,867	6,372	5,984	6,248	5,834	6,122	5,763
Albany	391	543	396	516	387	476	355	396	352	369
Big Horn	151	10	152	4	150	1	145	7	148	2
Campbell	435	463	426	450	466	474	479	516	469	480
Carbon	190	4	189	3	155	20	187	109	151	115
Converse	167	57	147	84	156	88	134	74	160	90
Crook	70	-	72	-	50	-	62	-	59	-
Fremont	461	445	460	462	487	478	505	484	481	478
Goshen	142	118	148	144	155	134	154	131	135	109
Hot Springs	47	67	36	54	44	46	51	60	48	40
Johnson	80	80	73	71	75	72	53	39	64	62
Laramie	1,134	1,064	1,161	1,058	1,177	1,111	1,111	1,060	1,106	1,072
Lincoln	188	129	198	136	184	116	174	113	189	123
Natrona	898	961	887	925	845	895	833	869	846	878
Niobrara	23	-	36	-	26	1	25	-	25	-
Park	281	410	277	409	310	444	309	427	260	370
Platte	84	90	86	90	97	100	94	81	99	76
Sheridan	259	272	276	284	285	283	261	289	275	280
Sublette	74	1	55	-	65	1	57	-	65	2
Sweetwater	522	509	522	508	555	526	587	538	543	520
Teton	173	270	164	260	187	286	162	254	190	317
Uinta	331	251	338	268	346	295	325	256	294	229
Washakie	96	69	97	80	103	98	100	87	102	110
Weston	57	41	83	61	64	39	77	44	60	41
Yellowstone NP	7	1	7	-	3	-	8	-	1	-

***MORTALITY***

## ***MORTALITY***

Wyoming resident deaths posted a record high for the third consecutive year in 1999. There were 4,038 resident deaths, 191 more than in 1998. The crude death rate rose from 8.0 deaths per 1,000 population to 8.4. A portion of the increase in Wyoming's crude death rate in recent years is due to the aging of the state's population. Census data indicate that the median age of the state's population rose from 32.0 years in 1990 to 36.2 years in 2000. The U.S. crude death rate also increased in 1999. It was 8.8, up from 8.6 in 1998.

### ***CHANGES EFFECTIVE FOR 1999 MORTALITY DATA***

***YEAR 2000 STANDARD FOR AGE ADJUSTED DEATH RATES*** Beginning with the publication of 1999 data the National Center for Health Statistics is changing the standard population used to age adjust death rates from the U.S. population in 1940 to the U.S. population in 2000. This change is being made in collaboration with other federal agencies in order to promote a uniform standard among the agencies and because the 1940 standard was seen as outdated.

Age adjusted death rates are hypothetical rates that would occur if an area had the same age structure as some standard population. The age adjusted death rate for an area is a weighted average of the area's age specific death rates. The weights used are proportions of the standard population by age group.

The magnitude of an age adjusted death rate depends in part on the standard population used to calculate it. Because the national population was a much older population in 2000 than in 1940, age adjusted death rates calculated with the U.S. 2000 standard are in general higher than those calculated with the 1940 standard. **Data users must be aware that age adjusted death rates calculated with different standard populations cannot be compared.** All age adjusted death rates in this publication have been adjusted to the U.S. 2000 population and are not comparable with those published in previous reports which were adjusted to the population of the U.S. in 1940.

***IMPLEMENTATION OF ICD-10*** The Tenth Revision of the International Classification of Disease (ICD-10) has been used to code the underlying cause of death for 1999 data,

replacing the Ninth Revision (ICD-9) which was used for deaths occurring from 1979 through 1998. This coding scheme is revised periodically in order to incorporate advances in medical knowledge and terminology. Although the revisions are obviously necessary, they pose major problems in examining mortality trends over time.

Differences between the ninth and tenth revision of the ICD include the following:

1. The number of conditions has been expanded from approximately 5,000 to about 8,000.
2. ICD-10 uses alphanumeric codes, while ICD-9 codes are numeric.
3. Some conditions have been transferred to different areas of the classification.
4. Some rules have changed for selecting which cause entered on the death certificate will be selected as the underlying cause.
5. Tabulation lists used to group conditions into uniform categories for publication have changed.

In order to determine the extent of the differences between ICD revisions to enable analysis of trends spanning two revisions, the National Center for Health Statistics calculates comparability ratios. Preliminary comparability ratios for some selected causes of death are given in the following table. The National Center for Health Statistics derived these ratios by double coding a large portion of the nation's death certificates for 1996 using both ICD-9 and ICD-10. The number of deaths coded to a given underlying cause using ICD-10 was then divided by the number of deaths coded to that cause using ICD-9 to obtain the comparability ratio.

Two of the causes of death that are most effected by the revision are influenza and pneumonia, and Alzheimer's disease. The comparability ratio for Alzheimer's disease is 1.55, meaning that 55 percent more deaths were coded to Alzheimer's disease using ICD-10 than using ICD-9. In contrast the comparability ratio for influenza and pneumonia is .70 meaning that 30 percent less deaths were coded to this category using ICD-10 than using ICD-9. These differences are only a function of the change in coding and do not represent real changes in mortality.

A major change between the revisions that is not reflected in the comparability ratios is the difference in the categories used to compile data. One example of such a change is the homicide category. The category used to compile statistics under ICD-9 was "homicide and legal intervention" and included codes E960-E978. Under ICD-10 deaths due to legal

**COMPARABLE CATEGORY CODES AND ESTIMATED COMPARABILITY RATIOS  
FOR SELECTED CAUSES OF DEATH**

<b>Cause of Death</b>	<b>ICD-10 Codes</b>	<b>Most Comparable ICD-9 Codes</b>	<b>Estimated Comparability Ratio</b>
Septicemia	A40-A41	038	1.19
Human immunodeficiency virus disease	B20-B24	042-044	1.14
Malignant neoplasms	C00-C97	140-208	1.01
Diabetes mellitus	E10-E14	250	1.01
Alzheimer's disease	G30	331.0	1.55
Diseases of heart	I00-I09,I11,I13,I20-I51	390-398,402,404,410-429	0.99
Essential hypertension and hypertensive renal disease	I10,I12	401,403	1.12
Cerebrovascular disease	I60-I69	430-434,436-438	1.06
Atherosclerosis	I70	440	0.96
Influenza and pneumonia	J10-J18	480-487	0.70
Chronic lower respiratory disease	J40-J47	490-494,496	1.05
Peptic ulcer	K25-K28	531-534	0.97
Chronic liver disease and cirrhosis	K70,K73-K74	571	1.04
Nephritis and nephrosis	N00-N07,N17-N19,N25-N27	580-589	1.23
Certain conditions of the perinatal period	P00-P96	760-771.2,771.4-779	1.07
Congenital malformations	Q00-Q99	740-759	0.85
Sudden infant death syndrome	R95	798.0	1.04
Unintentional injuries	V01-X59,Y85-Y86	E800-E869,E880-E929	1.03
Suicide	X60-X84,Y87.0	E950-E959	1.00
Homicide	X85-Y09,Y87.1	E960-E969	1.00

Note: The estimated comparability ratios were computed by double coding a large sample of U.S. death certificates for 1996 and dividing the number of deaths coded to a category using ICD-10 by the number of deaths coded to that category using ICD-9.

Source: Comparability of cause of death between ICD-9 and ICD-10: Preliminary estimates. National vital statistics reports; vol 49, no. 2. National Center for Health Statistics. 2001.

intervention are no longer included. The ICD-9 codes E960-E969 were used to calculate the comparability ratio since they are the most comparable to the new ICD-10 category. Another example is the unintentional injury category. Under ICD-9 it was named “accidents and adverse effects,” E800-E949, a category that included complications of medical and surgical care. The tenth revision category does not include deaths due to complications of medical and surgical care. The ICD-9 codes most comparable to the new ICD-10 category are E800-E869 and E880-E929.

**LEADING CAUSES OF DEATH** The implementation of the Tenth Revision of the International Classification of Disease has influenced the ranking of the state’s leading causes of death for 1999. Influenza and pneumonia dropped from sixth to seventh place, and Alzheimer’s disease moved from tenth to eighth, due in part to the ICD-10 coding changes.

**TEN LEADING CAUSES OF DEATH  
WYOMING RESIDENTS, 1999**

Rank	Cause of Death	Number	WY Crude Rate <sup>1</sup>	U.S. Crude Rate <sup>1</sup>
	All Causes	4,038	841.9	877.0
1	Heart Disease	1,010	210.6	265.8
2	Malignant Neoplasms	898	187.2	201.6
3	Chronic Lower Respiratory Disease	338	70.5	45.5
4	Cerebrovascular Disease	264	55.0	61.4
5	Unintentional Injuries	259	54.0	35.7
	Motor Vehicle Related	145	30.2	15.6
	Other	114	23.8	20.1
6	Diabetes Mellitus	136	28.4	25.1
7	Influenza and Pneumonia	130	27.1	23.4
8	Alzheimer’s Disease	103	21.5	16.3
9	Suicide	98	20.4	10.6
10	Chronic Liver Disease and Cirrhosis	49	10.2	9.6
	All Other Causes	753	157.0	182.0

<sup>1</sup>Rates per 100,000 population.

A number of the cause of death titles in ICD-10 differ from those in ICD-9. The most notable change is the ICD-9 title "chronic obstructive pulmonary disease (COPD)" is termed "chronic lower respiratory disease (CLRD)" in ICD-10.

The following table compares the state's 1998 age adjusted death rates for the ten leading causes of death to those for 1999. In order to do this, the rates are multiplied by the comparability ratios between ICD-9 and ICD-10. Wyoming's rates increased for all of the leading causes with the exception of heart disease, cerebrovascular disease, and chronic liver disease and cirrhosis.

**AGE ADJUSTED DEATH RATES<sup>1</sup> FOR TEN LEADING CAUSES OF DEATH  
WYOMING RESIDENTS, 1998, 1999**

Rank	Cause of Death	WY 1998	Modified WY 1998	WY 1999	U.S. 1999
	All Causes	881.8	881.8	908.0	881.9
1	Heart Disease	242.8	239.4	231.3	267.7
2	Malignant Neoplasms	188.8	190.1	197.3	202.6
3	Chronic Lower Respiratory Disease	55.3	57.9	76.6	45.8
4	Cerebrovascular Disease	68.9	73.0	61.5	61.8
5	Unintentional Injuries	48.6	50.1	54.1	35.7
	Motor Vehicle Related	28.3	27.6	29.4	15.5
	Other	20.4	22.5	24.7	20.1
6	Diabetes Mellitus	26.3	26.5	30.4	25.2
7	Influenza and Pneumonia	35.7	24.9	30.5	23.5
8	Alzheimer's Disease	10.4	16.2	24.3	16.5
9	Suicide	18.2	18.1	20.8	10.6
10	Chronic Liver Disease and Cirrhosis	13.8	14.3	10.4	9.7

<sup>1</sup>Rank is based on the number of deaths.

Rates are per 100,000 population.

Rates were age adjusted by the direct method, using the U.S. 2000 population as the standard. These rates are not comparable with rates adjusted to the U.S. 1940 population standard.

Modified rates for 1998 were multiplied by the comparability ratio to permit comparison of 1998 death data coded under ICD-9 with 1999 data coded under ICD-10.

**YEARS OF POTENTIAL LIFE LOST** Leading cause of death statistics tend to emphasize causes of death at older ages simply because of the larger number of these deaths. An alternative way of examining causes of death, which puts more emphasis on premature deaths, is the years of potential life lost statistic (YPLL). Only deaths of persons under the age of 75 are included when calculating this statistic.<sup>1</sup> The calculation is done using numbers of deaths by age group. The number of deaths for each age group is multiplied by the difference between the midpoint of the age group and 75. The YPLL is then derived by summing this figure over all age groups.

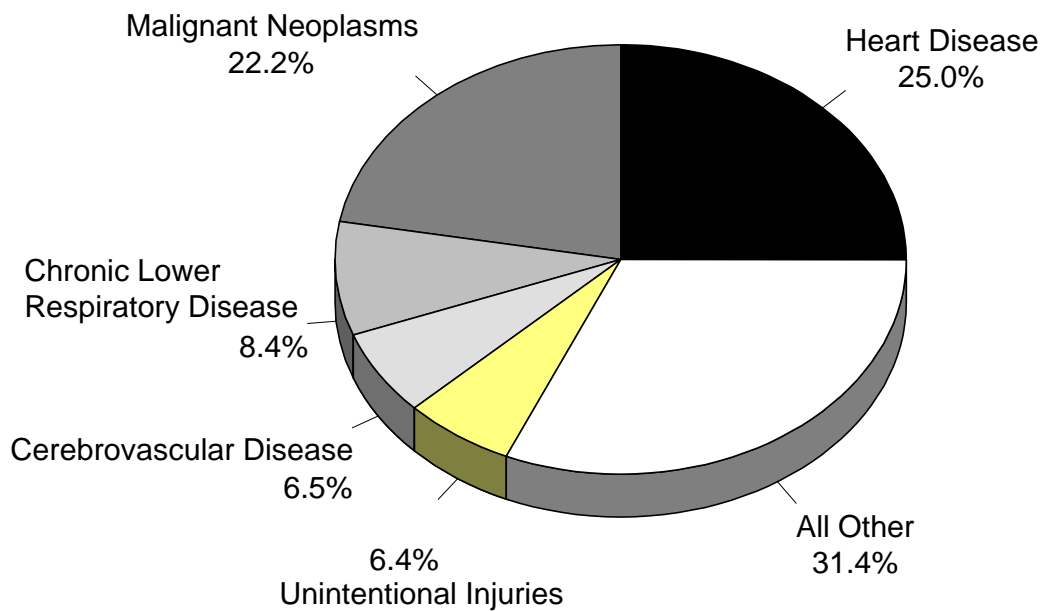
The total number of years of potential life lost increased by 3.3% since 1998 and by 7.0% since 1997. Unintentional injuries regained the position as the leading cause of YPLL, but malignant neoplasms caused nearly as many lost years. The third and fourth causes remained heart disease and suicide.

**LEADING CAUSES OF YEARS OF POTENTIAL LIFE LOST  
WYOMING RESIDENTS, 1999**

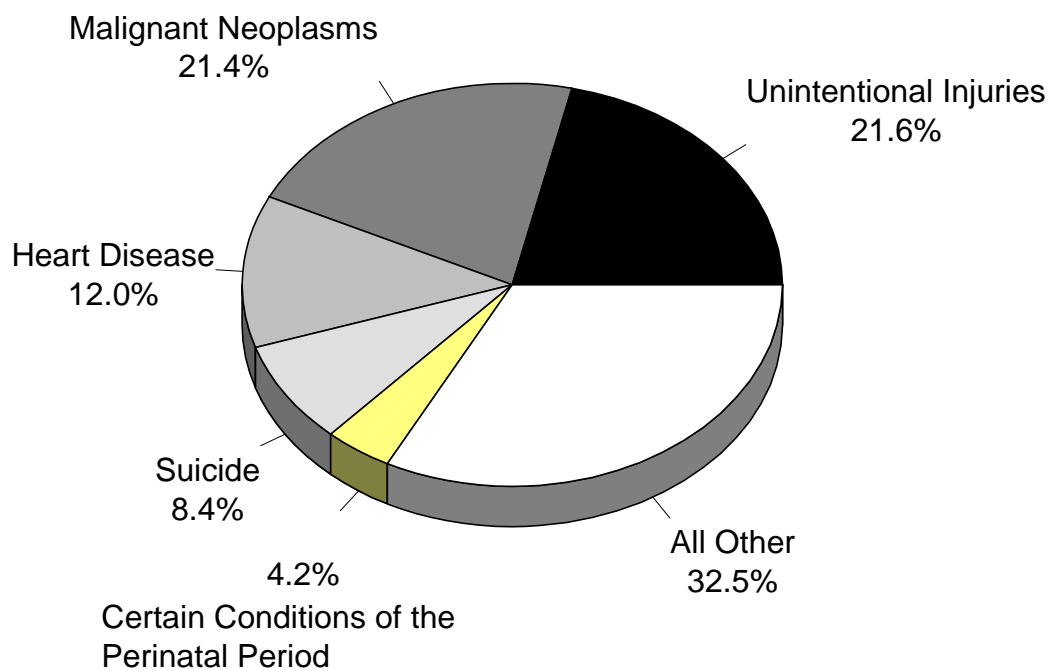
Rank	Cause of Death	YPLL	% of Total YPLL
	All Causes	35,865.5	100.0
1	Unintentional Injuries	7,733.5	21.6
	Motor Vehicle Related	5,380.5	15.0
	Other	2,353.0	6.6
2	Malignant Neoplasms	7,662.0	21.4
3	Heart Disease	4,308.0	12.0
4	Suicide	2,998.0	8.4
5	Certain Conditions of the Perinatal Period	1,490.0	4.2
6	Chronic Lower Respiratory Disease	1,417.0	4.0
7	Congenital Malformations	1,089.5	3.0
8	Diabetes Mellitus	857.5	2.4
9	Chronic Liver Disease and Cirrhosis	790.0	2.2
10	Cerebrovascular Disease	770.0	2.1
	All Other Causes	6,750.0	18.8



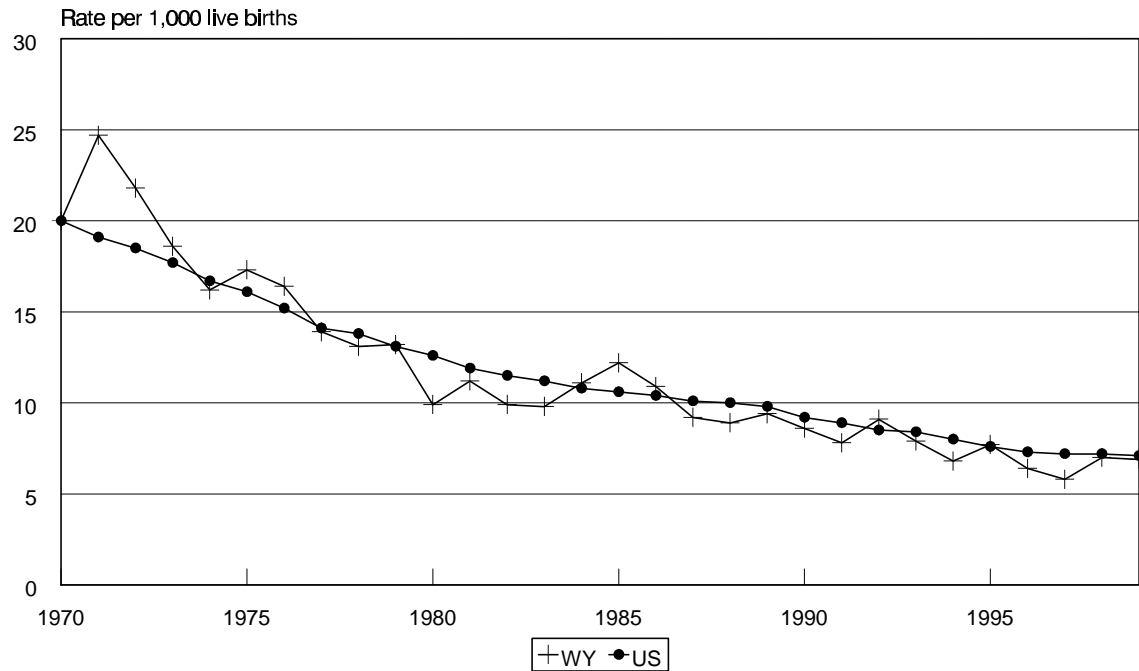
**NUMBERS OF DEATHS  
BY LEADING CAUSE, WY 1999**



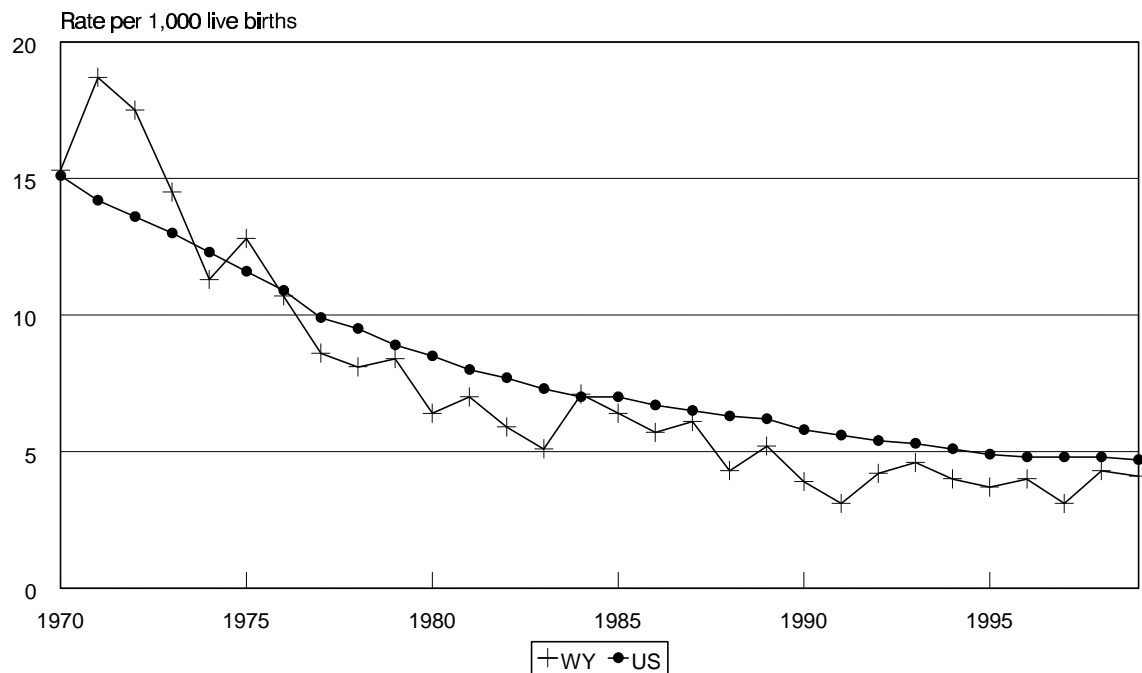
**YEARS OF POTENTIAL LIFE LOST  
BY LEADING CAUSE, WY 1999**



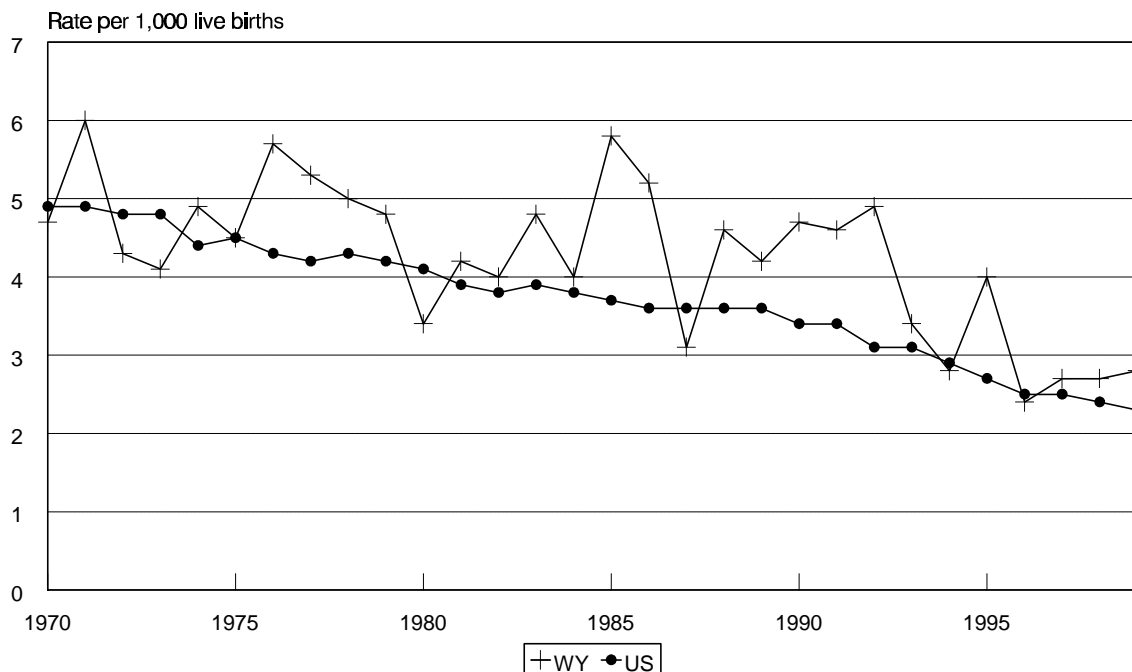
# **INFANT MORTALITY RATES** **WYOMING AND U.S., 1970 - 1999**



# **NEONATAL MORTALITY RATES** **WYOMING AND U.S., 1970 - 1999**



### **POSTNEONATAL MORTALITY RATES WYOMING AND U.S., 1970 - 1999**



**INFANT MORTALITY** There were 42 deaths of infants under one year of age. This was two less than the previous year. The infant mortality rate fell from 7.0 infant deaths per 1,000 live births to 6.9. This was slightly lower than the preliminary rate for the U.S. of 7.1.

The decrease in the infant mortality rate was due to a drop in the number of neonatal deaths (under 28 days old). There were 25 of these deaths in 1999, compared to 27 in 1998. The neonatal mortality rate fell from 4.3 neonatal deaths per 1,000 live births to 4.1. This was 12.8% below the preliminary U.S. rate of 4.7.

The number of postneonatal deaths (from 28 days to one year of age) remained at 17 for the third consecutive year. Due to a drop in the number of births, the postneonatal mortality rate rose from 2.7 in 1998 to 2.8 in 1999. This was 21.7% above the preliminary U.S. Rate of 2.3.

Congenital malformations and sudden infant death syndrome caused seven infant deaths each in 1999, tying for the leading cause of infant death. While the state's infant mortality

rate for sudden infant death syndrome consistently exceeds that for the U.S., Wyoming's infant mortality rate for congenital malformations is consistently below the national.

**LEADING CAUSES OF INFANT DEATH  
WYOMING RESIDENTS, 1999**

Cause	WY		U.S.
	Number	Rate <sup>1</sup>	Rate <sup>1</sup>
All Causes	42	68.6	70.6
Congenital Malformations	7	11.4	13.8
Sudden Infant Death Syndrome	7	11.4	6.5
Disorders Relating to Short Gestation and Unspecified Low Birthweight	4	6.5	11.1
Bacterial Sepsis of Newborn	3	4.9	1.7
Influenza and Pneumonia	3	4.9	0.8
Newborn Affected by Maternal Complications of Pregnancy	3	4.9	3.5
All Other Causes	15	24.5	33.2

<sup>1</sup> Rates are per 10,000 live births.

Rates based on less than 20 deaths are statistically unreliable.

**DEATHS AND RATES  
BY COUNTY OF RESIDENCE  
WYOMING, 1995 - 1999**

Residence	1995		1996		1997		1998		1999	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
U.S. Rate	--	8.8	--	8.7	--	8.6	--	8.6	--	8.8
Wyoming	3,720	7.8	3,604	7.5	3,740	7.8	3,847	8.0	4,038	8.4
Albany	166	5.4	164	5.4	160	5.4	184	6.3	172	5.9
Big Horn	130	11.7	129	11.5	122	11.0	136	12.0	141	12.6
Campbell	133	4.2	115	3.6	155	4.8	135	4.2	155	4.7
Carbon	148	9.2	144	9.0	119	7.6	146	9.4	137	8.9
Converse	97	8.1	89	7.3	76	6.2	86	7.0	93	7.5
Crook	49	8.7	38	6.6	36	6.2	55	9.5	38	6.6
Fremont	341	9.6	314	8.7	372	10.3	342	9.5	365	10.1
Goshen	129	10.2	117	9.2	116	9.0	134	10.5	132	10.4
Hot Springs	51	11.1	51	11.0	64	13.6	60	12.9	68	15.2
Johnson	83	12.5	79	11.8	81	12.0	84	12.4	58	8.5
Laramie	621	7.9	593	7.5	600	7.6	621	7.9	638	8.1
Lincoln	85	6.1	86	6.2	92	6.7	87	6.3	104	7.4
Natrona	531	8.3	499	7.8	537	8.4	513	8.1	589	9.3
Niobrara	32	12.3	34	12.9	33	12.5	24	8.9	32	11.9
Park	214	8.5	193	7.6	240	9.4	212	8.2	272	10.7
Platte	84	10.1	98	11.6	97	11.3	104	12.1	112	13.0
Sheridan	261	10.4	253	10.0	250	9.9	322	12.8	272	10.8
Sublette	38	6.9	36	6.5	59	10.4	52	9.0	52	8.9
Sweetwater	243	6.0	235	5.9	230	5.8	240	6.0	252	6.4
Teton	50	3.7	66	4.9	58	4.2	62	4.4	68	4.7
Uinta	96	4.8	109	5.4	108	5.3	84	4.1	124	6.1
Washakie	72	8.4	107	12.5	72	8.4	95	10.9	97	11.4
Weston	66	10.1	55	8.4	60	9.2	69	10.6	66	10.3
Yellowstone NP	-	--	-	--	3	--	-	--	1	--

**DEATHS BY SEX, RACE, ORIGIN, AGE,  
AND COUNTY OF RESIDENCE  
WYOMING, 1999**

	Total	Age Group											
		Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	Not Stated
Wyoming	4,038	42	3	31	84	57	160	277	409	746	1,144	1,084	1
Sex													
Male	2,066	29	1	21	63	39	92	177	255	415	589	384	1
Female	1,972	13	2	10	21	18	68	100	154	331	555	700	-
Race													
White	3,932	39	3	29	80	50	145	269	399	720	1,122	1,075	1
Black	24	1	-	-	-	-	5	1	4	3	8	2	-
Indian	74	2	-	2	4	7	10	6	6	19	12	6	-
Other	8	-	-	-	-	-	-	1	-	4	2	1	-
Unknown	-	-	-	-	-	-	-	-	-	-	-	-	-
Hispanic Origin <sup>1</sup>	127	5	-	3	13	2	6	18	14	21	25	20	-
Residence													
Albany	172	3	-	-	6	5	11	14	11	22	53	47	-
Big Horn	141	1	-	2	2	-	2	8	14	23	42	47	-
Campbell	155	3	-	3	1	5	16	14	16	32	28	37	-
Carbon	137	3	-	1	4	2	2	11	17	32	34	31	-
Converse	93	1	-	1	2	2	4	5	16	19	25	18	-
Crook	38	-	-	-	-	-	2	3	4	8	12	9	-
Fremont	365	2	1	2	5	10	18	36	40	74	94	83	-
Goshen	132	-	-	-	1	2	1	4	7	38	29	50	-
Hot Springs	68	1	-	-	1	-	1	3	6	11	18	27	-
Johnson	58	-	-	-	-	-	3	3	7	11	16	18	-
Laramie	638	8	-	2	11	2	23	49	67	115	186	174	1
Lincoln	104	-	-	2	1	-	8	8	9	26	26	24	-
Natrona	589	7	1	4	13	14	21	36	52	107	186	148	-
Niobrara	32	-	-	-	-	-	1	2	1	8	9	11	-
Park	272	2	-	4	9	1	8	11	22	46	83	86	-
Platte	112	-	-	-	2	2	5	5	14	14	34	36	-
Sheridan	272	2	-	2	2	2	7	15	30	51	83	78	-
Sublette	52	-	-	-	1	-	1	3	6	5	18	18	-
Sweetwater	252	5	-	2	11	9	12	21	40	35	60	57	-
Teton	68	-	-	-	5	1	3	4	5	14	17	19	-
Uinta	124	1	1	5	6	-	5	10	13	27	30	26	-
Washakie	97	1	-	1	-	-	4	5	7	13	42	24	-
Weston	66	2	-	-	1	-	2	6	5	15	19	16	-
Yellowstone NP	1	-	-	-	-	-	-	1	-	-	-	-	-

<sup>1</sup>Included in appropriate race totals.

**DEATHS BY SELECTED CAUSE AND COUNTY OF RESIDENCE  
WYOMING, 1999**

Residence	Total	Malignant Neoplasms C00-C97	Diabetes Mellitus E10-E14	Alzheimer's Disease G30	Heart Disease I00-I09,I11,I13,I20-I51	Cerebrovascular Disease I60-I69	Atherosclerosis I70	Influenza and Pneumonia J10-J18	Chronic Lower Respiratory Disease J40-J47	Chronic Liver Disease and Cirrhosis K70,K73-K74	Nephritis and Nephrosis N00-N07,N17-N19, N25-N27	Congenital Anomalies Q00-Q99	Certain Conditions of the Perinatal Period P00-P96	Sudden Infant Death Syndrome R95	Motor Vehicle Related Injuries *	Other Unintentional Injuries *	Suicide X60-X84,Y87.0	Homicide X85-Y09,Y87.1	All Other Causes
Wyoming	4,038	898	136	103	1,010	264	18	130	338	49	29	19	20	7	145	114	98	12	648
Albany	172	30	10	6	33	11	-	-	10	1	2	1	1	-	8	9	5	-	45
Big Horn	141	29	6	3	43	11	1	7	4	3	2	2	-	-	6	2	1	-	21
Campbell	155	33	9	-	36	5	-	1	17	2	2	2	3	-	9	6	5	-	25
Carbon	137	27	4	-	40	6	2	6	12	1	-	1	-	2	6	6	6	-	18
Converse	93	25	5	1	17	9	-	2	8	-	-	1	-	-	4	1	2	-	18
Crook	38	14	2	2	11	2	-	-	3	-	-	-	-	-	2	-	-	-	2
Fremont	365	76	14	16	89	23	1	8	26	5	2	-	1	1	23	13	11	1	55
Goshen	132	30	5	1	41	6	2	3	14	2	2	-	-	-	3	4	2	1	16
Hot Springs	68	12	2	2	21	3	-	2	5	1	1	-	-	-	2	3	3	-	11
Johnson	58	10	1	-	20	5	-	-	8	-	-	-	-	-	2	1	1	-	10
Laramie	638	169	20	13	155	36	2	19	51	10	5	2	3	1	19	15	10	1	107
Lincoln	104	27	3	1	24	3	1	4	9	2	1	-	-	-	5	5	3	-	16
Natrona	589	114	18	20	138	39	1	26	53	10	3	2	5	2	18	16	23	4	97
Niobrara	32	8	1	-	9	1	-	-	2	-	2	-	-	-	-	1	-	-	8
Park	272	57	5	9	75	18	2	11	25	2	2	2	-	-	10	4	5	1	44
Platte	112	23	5	1	28	8	2	3	12	1	1	-	-	-	4	3	1	1	19
Sheridan	272	71	7	10	75	21	3	13	21	3	-	2	1	-	3	6	2	-	34
Sublette	52	18	1	3	14	3	-	-	5	-	1	-	-	-	-	1	2	-	4
Sweetwater	252	42	10	9	56	23	-	3	26	3	-	1	3	1	10	9	10	3	43
Teton	68	19	2	-	14	7	1	-	2	-	2	-	-	-	2	2	1	-	16
Uinta	124	30	4	3	25	11	-	1	11	2	-	2	1	-	8	3	2	-	21
Washakie	97	13	1	3	32	9	-	16	7	1	1	1	-	-	1	1	2	-	9
Weston	66	21	1	-	14	4	-	5	7	-	-	-	2	-	-	3	1	-	8
Yellowstone NP	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

\*Motor vehicle related injuries V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2

Other unintentional injuries V01, V05-V06, V09.1, V09.3-V09.9, V10-V11, V15-V18, V19.3, V19.8-V19.9, V80.0-V80.2, V80.6-V80.9, V81.2-V81.9, V82.2-V82.9, V87.9, V88.9, V89.1, V89.3, V89.9, V90-X59, Y85-Y86

**LEADING CAUSE OF DEATH BY AGE GROUP AND SEX  
WYOMING, 1999**

Cause of Death	Number of Deaths	Percent of Total	Cause of Death	Number of Deaths	Percent of Total
<u>TOTAL ALL AGES<sup>1</sup></u>			<u>TOTAL 25 - 44 YEARS</u>		
Heart Disease	1,010	25.0	Unintentional Injuries	66	30.4
Malignant Neoplasms	898	22.2	Motor Vehicle Related	41	18.9
Chronic Lower Respiratory Disease	338	8.4	Other	25	11.5
Cerebrovascular Disease	264	6.5	Malignant Neoplasms	36	16.6
Unintentional Injuries	259	6.4	Suicide	28	12.9
Motor Vehicle Related	145	3.6	Heart Disease	18	8.3
Other	114	2.8	Chronic Liver Disease and Cirrhosis	9	4.1
All Other Causes	1,269	31.4	All Other Causes	60	27.6
Total	4,038	100.0	Total	217	100.0
 <u>TOTAL 1 - 14 YEARS</u>			 <u>TOTAL 45 - 64 YEARS</u>		
Unintentional Injuries	13	38.2	Malignant Neoplasms	230	33.5
Motor Vehicle Related	13	38.2	Heart Disease	135	19.7
Other	-	0.0	Unintentional Injuries	59	8.6
Congenital Anomalies	6	17.6	Motor Vehicle Related	36	5.2
Malignant Neoplasms	4	11.8	Other	23	3.4
Suicide	3	8.8	Chronic Lower Respiratory Disease	53	7.7
Heart Disease	2	5.9	Diabetes Mellitus	29	4.2
All Other Causes	6	17.6	All Other Causes	180	26.2
Total	34	100.0	Total	686	100.0
 <u>TOTAL 15 - 24 YEARS</u>			 <u>TOTAL 65 YEARS &amp; OVER</u>		
Unintentional Injuries	50	59.5	Heart Disease	854	28.7
Motor Vehicle Related	37	44.0	Malignant Neoplasms	623	20.9
Other	13	15.5	Chronic Lower Respiratory Disease	284	9.5
Suicide	19	22.6	Cerebrovascular Disease	240	8.1
Malignant Neoplasms	5	6.0	Influenza and Pneumonia	116	3.9
Homicide	2	2.4	All Other Causes	857	28.8
All Other Causes	8	9.5	Total	2,974	100.0
Total	84	100.0			

<sup>1</sup>Total includes deaths under the age of one year and deaths of unknown age.



**LEADING CAUSE OF DEATH BY AGE GROUP AND SEX  
WYOMING, 1999**

Cause of Death	Number of Deaths	Percent of Total	Cause of Death	Number of Deaths	Percent of Total
<u>MALE ALL AGES<sup>1</sup></u>			<u>MALE 25 - 44 YEARS</u>		
Heart Disease	531	25.7	Unintentional Injuries	41	31.3
Malignant Neoplasms	484	23.4	Motor Vehicle Related	22	16.8
Chronic Lower Respiratory Disease	174	8.4	Other	19	14.5
Unintentional Injuries	167	8.1	Suicide	18	13.7
Motor Vehicle Related	91	4.4	Malignant Neoplasms	16	12.2
Other	76	3.7	Heart Disease	14	10.7
Cerebrovascular Disease	102	4.9	Homicide	5	3.8
All Other Causes	608	29.4	All Other Causes	37	28.2
Total	2,066	100.0	Total	131	100.0
<u>MALE 1 - 14 YEARS</u>			<u>MALE 45 - 64 YEARS</u>		
Unintentional Injuries	7	31.8	Malignant Neoplasms	128	29.6
Motor Vehicle Related	7	31.8	Heart Disease	102	23.6
Other	-	0.0	Unintentional Injuries	41	9.5
Congenital Anomalies	3	13.6	Motor Vehicle Related	24	5.6
Malignant Neoplasms	3	13.6	Other	17	3.9
Heart Disease	2	9.1	Chronic Lower Respiratory Disease	29	6.7
Suicide	2	9.1	Chronic Liver Disease and Cirrhosis	17	3.9
All Other Causes	5	22.7	Diabetes Mellitus	17	3.9
Total	22	100.0	All Other Causes	98	22.7
<u>MALE 15 - 24 YEARS</u>			Total	432	100.0
Unintentional Injuries	39	61.9	<u>MALE 65 YEARS &amp; OVER</u>		
Motor Vehicle Related	26	41.3	Heart Disease	413	29.8
Other	13	20.6	Malignant Neoplasms	334	24.1
Suicide	17	27.0	Chronic Lower Respiratory Disease	144	10.4
Malignant Neoplasms	3	4.8	Cerebrovascular Disease	89	6.4
All Other Causes	4	6.3	Diabetes Mellitus	45	3.2
Total	63	100.0	All Other Causes	363	26.2
			Total	1,388	100.0

<sup>1</sup>Total includes deaths under the age of one year, and deaths of unknown age.

**LEADING CAUSE OF DEATH BY AGE GROUP AND SEX  
WYOMING, 1999**

Cause of Death	Number of Deaths	Percent of Total	Cause of Death	Number of Deaths	Percent of Total
<u>FEMALE ALL AGES<sup>1</sup></u>			<u>FEMALE 25 - 44 YEARS</u>		
Heart Disease	479	24.3	Unintentional Injuries	25	29.1
Malignant Neoplasms	414	21.0	Motor Vehicle Related	19	22.1
Chronic Lower Respiratory Disease	164	8.3	Other	6	7.0
Cerebrovascular Disease	162	8.2	Malignant Neoplasms	20	23.3
Unintentional Injuries	92	4.7	Suicide	10	11.6
Motor Vehicle Related	54	2.7	Chronic Liver Disease and Cirrhosis	6	7.0
Other	38	1.9	Cerebrovascular Disease	4	4.7
All Other Causes	661	33.5	Heart Disease	4	4.7
Total	1,972	100.0	All Other Causes	17	19.8
			Total	86	100.0
<u>FEMALE 1 - 14 YEARS</u>			<u>FEMALE 45 - 64 YEARS</u>		
Unintentional Injuries	6	50.0	Malignant Neoplasms	102	40.2
Motor Vehicle Related	6	50.0	Heart Disease	33	13.0
Other	-	0.0	Chronic Lower Respiratory Disease	24	9.4
Congenital Anomalies	3	25.0	Unintentional Injuries	18	7.1
All Other Causes	3	25.0	Motor Vehicle Related	12	4.7
Total	12	100.0	Other	6	2.4
			Diabetes Mellitus	12	4.7
<u>FEMALE 15 - 24 YEARS</u>			All Other Causes	65	25.6
Unintentional Injuries	11	52.4	Total	254	100.0
Motor Vehicle Related	11	52.4			
Other	-	0.0	<u>FEMALE 65 YEARS &amp; OVER</u>		
Malignant Neoplasms	2	9.5	Heart Disease	441	27.8
Suicide	2	9.5	Malignant Neoplasms	289	18.2
All Other Causes	6	28.6	Cerebrovascular Disease	151	9.5
Total	21	100.0	Chronic Lower Respiratory Disease	140	8.8
			Influenza and Pneumonia	76	4.8
			All Other Causes	489	30.8
			Total	1,586	100.0

<sup>1</sup>Total includes deaths under the age of one year.

**RESIDENT DEATHS BY SELECTED CAUSE AND AGE  
WYOMING, 1999**

	Total	Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	Not Stated
All Causes	4,038	42	3	31	84	57	160	277	409	746	1,144	1,084	1
Septicemia (A40-A41)	31	-	-	-	-	-	1	5	2	7	2	14	-
Human immunodeficiency virus disease (B20-B24)	2	-	-	-	-	-	1	1	-	-	-	-	-
Malignant neoplasms (C00-C97)	898	-	1	3	5	3	33	85	145	253	261	109	-
Colon, rectum and anus (C18-C21)	93	-	-	-	-	1	2	9	14	23	24	20	-
Pancreas (C25)	55	-	-	-	-	-	1	2	11	17	14	10	-
Trachea, bronchus and lung (C33-C34)	242	-	-	-	1	-	4	14	44	93	66	20	-
Malignant melanoma of skin (C43)	19	-	-	-	1	1	-	3	5	3	3	3	-
Breast (C50)	60	-	-	-	-	-	6	9	6	9	25	5	-
Cervix uteri, corpus uteri and ovary (C53-C56)	43	-	-	-	1	-	4	6	9	7	9	7	-
Prostate (C61)	57	-	-	-	-	-	1	-	5	16	20	15	-
Urinary tract (C64-C68)	47	-	-	-	-	-	-	5	5	15	16	6	-
Brain and other central nervous system (C70-C72)	29	-	-	1	-	1	4	2	9	10	1	1	-
Leukemia (C91-C95)	39	-	-	1	1	-	2	3	3	10	13	6	-
Other malignant neoplasms	214	-	1	1	1	0	9	32	34	50	70	16	-
Diabetes mellitus (E10-E14)	136	-	-	-	-	-	4	9	20	32	42	29	-
Alzheimer's disease (G30)	103	-	-	-	-	-	-	-	1	14	33	55	-
Major cardiovascular diseases (I00-I78)	1,365	-	-	2	1	4	21	53	112	220	450	502	-
Diseases of heart (I00-I09, I11, I13, I20-I51)	1,010	-	-	2	1	3	15	41	94	172	335	347	-
Hypertensive heart disease with or without renal disease (I11, I13)	25	-	-	-	-	-	2	-	3	4	6	10	-
Ischemic heart disease (I20-I25)	694	-	-	2	-	1	6	34	70	136	234	211	-
Other heart disease (I00-I09, I26-I51)	291	-	-	-	1	2	7	7	21	32	95	126	-
Essential hypertension and hypertensive renal disease (I10, I12)	23	-	-	-	-	-	1	1	1	1	8	11	-
Cerebrovascular disease (I60-I69)	264	-	-	-	-	1	5	7	11	36	85	119	-
Atherosclerosis (I70)	18	-	-	-	-	-	-	-	1	1	4	12	-
Other diseases of the circulatory system (I71-I78)	50	-	-	-	-	-	-	4	5	10	18	13	-
Influenza and pneumonia (J10-J18)	130	3	-	1	-	2	2	3	3	11	40	65	-
Chronic lower respiratory disease (J40-J47)	338	-	-	-	-	-	1	12	41	80	132	72	-
Peptic Ulcer (K25-K28)	5	-	-	-	-	-	-	-	1	-	2	2	-
Chronic liver disease and cirrhosis (K70, K73-K74)	49	-	-	-	-	-	9	12	6	13	8	1	-
Nephritis and nephrosis (N00-N07, N17-N19, N25-N27)	29	-	-	-	-	-	-	-	3	7	9	10	-
Certain conditions of the perinatal period (P00-P96)	20	20	-	-	-	-	-	-	-	-	-	-	-
Congenital malformations (Q00-Q99)	19	7	1	5	1	1	-	1	2	1	-	-	-
Sudden Infant Death Syndrome (R95)	7	7	-	-	-	-	-	-	-	-	-	-	-
Symptoms, signs and abnormal clinical and laboratory findings (R00-R94, R96-R99)	32	-	-	-	1	1	1	2	3	3	4	17	-
All other diseases	491	3	-	3	3	5	27	35	40	72	131	172	-
Motor vehicle related injuries*	145	-	1	12	37	11	30	26	10	12	5	1	-
Other unintentional injuries*	114	2	-	-	13	8	17	12	11	7	18	25	1
Suicide (X60-X84, Y87.0)	98	-	-	3	19	17	11	16	7	11	6	8	-
Homicide (X85-Y09, Y87.1)	12	-	-	1	2	3	2	2	1	1	-	-	-
All other external causes (Y10-Y36, Y40-84, Y87.2, Y88-89)	14	-	-	1	2	2	-	3	1	2	1	2	-

\*Motor vehicle related injuries (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2)

Other unintentional injuries (V01, V05-V06, V09.1, V09.3-V09.9, V10-V11, V15-V18, V19.3, V19.8-V19.9, V80.0-V80.2, V80.6-V80.9, V81.2-V81.9, V82.2-V82.9, V87.9, V88.9, V89.1, V89.3, V89.9, V90-X59, Y85-Y86)

**MALE RESIDENT DEATHS BY SELECTED CAUSE AND AGE  
WYOMING, 1999**

	Total	Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	Not Stated
All Causes	2,066	29	1	21	63	39	92	177	255	415	589	384	1
Septicemia (A40-A41)	14	-	-	-	-	-	1	3	1	3	-	6	-
Human immunodeficiency virus disease (B20-B24)	2	-	-	-	-	-	1	1	-	-	-	-	-
Malignant neoplasms (C00-C97)	484	-	1	2	3	1	15	42	86	153	130	51	-
Colon, rectum and anus (C18-C21)	54	-	-	-	-	-	-	4	13	14	13	10	-
Pancreas (C25)	30	-	-	-	-	-	1	2	8	9	6	4	-
Trachea, bronchus and lung (C33-C34)	132	-	-	-	1	-	3	7	23	56	32	10	-
Malignant melanoma of skin (C43)	13	-	-	-	1	-	-	2	4	3	2	1	-
Breast (C50)	2	-	-	-	-	-	-	-	1	1	-	-	-
Prostate (C61)	57	-	-	-	-	-	1	-	5	16	20	15	-
Urinary tract (C64-C68)	34	-	-	-	-	-	-	4	3	12	11	4	-
Brain and other central nervous system (C70-C72)	17	-	-	-	-	1	4	1	5	5	-	1	-
Leukemia (C91-C95)	25	-	-	1	1	-	1	3	1	5	11	2	-
Other malignant neoplasms	120	-	1	1	0	0	5	19	23	32	35	4	-
Diabetes mellitus (E10-E14)	64	-	-	-	-	-	2	7	10	11	17	17	-
Alzheimer's disease (G30)	39	-	-	-	-	-	-	-	-	6	20	13	-
Major cardiovascular diseases (I00-I78)	677	-	-	2	-	2	15	38	84	122	246	168	-
Diseases of heart (I00-I09, I11, I13, I20-I51)	531	-	-	2	-	2	12	33	69	98	195	120	-
Hypertensive heart disease with or without renal disease (I11, I13)	13	-	-	-	-	-	2	-	1	4	3	3	-
Ischemic heart disease (I20-I25)	397	-	-	2	-	1	5	30	54	83	143	79	-
Other heart disease (I00-I09, I26-I51)	121	-	-	-	-	1	5	3	14	11	49	38	-
Essential hypertension and hypertensive renal disease (I10, I12)	9	-	-	-	-	-	1	1	1	-	1	5	-
Cerebrovascular disease (I60-I69)	102	-	-	-	-	-	2	2	9	14	41	34	-
Atherosclerosis (I70)	8	-	-	-	-	-	-	-	1	1	2	4	-
Other diseases of the circulatory system (I71-I78)	27	-	-	-	-	-	-	2	4	9	7	5	-
Influenza and pneumonia (J10-J18)	50	2	-	1	-	2	1	2	2	5	14	21	-
Chronic lower respiratory disease (J40-J47)	174	-	-	-	-	-	1	7	22	36	80	28	-
Peptic Ulcer (K25-K28)	1	-	-	-	-	-	-	-	-	-	1	-	-
Chronic liver disease and cirrhosis (K70, K73-K74)	34	-	-	-	-	-	3	11	6	8	6	-	-
Nephritis and nephrosis (N00-N07, N17-N19, N25-N27)	14	-	-	-	-	-	-	-	2	4	4	4	-
Certain conditions of the perinatal period (P00-P96)	13	13	-	-	-	-	-	-	-	-	-	-	-
Congenital malformations (Q00-Q99)	9	4	-	3	-	1	-	-	1	-	-	-	-
Sudden Infant Death Syndrome (R95)	6	6	-	-	-	-	-	-	-	-	-	-	-
Symptoms, signs and abnormal clinical and laboratory findings (R00-R94, R96-R99)	7	-	-	-	-	-	1	2	1	1	-	2	-
All other diseases	216	3	-	2	1	4	16	23	21	39	53	54	-
Motor vehicle related injuries*	91	-	-	7	26	6	16	18	6	9	2	1	-
Other unintentional injuries*	76	1	-	-	13	6	13	10	7	6	9	10	1
Suicide (X60-X84, Y87.0)	75	-	-	2	17	13	5	10	5	9	6	8	-
Homicide (X85-Y09, Y87.1)	11	-	-	1	1	3	2	2	1	1	-	-	-
All other external causes (Y10-Y36, Y40-84, Y87.2, Y88-89)	9	-	-	1	2	1	-	1	-	2	1	1	-

\*Motor vehicle related injuries (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2)

Other unintentional injuries (V01, V05-V06, V09.1, V09.3-V09.9, V10-V11, V15-V18, V19.3, V19.8-V19.9, V80.0-V80.2, V80.6-V80.9, V81.2-V81.9, V82.2-V82.9, V87.9, V88.9, V89.1, V89.3, V89.9, V90-X59, Y85-Y86)

**FEMALE RESIDENT DEATHS BY SELECTED CAUSE AND AGE  
WYOMING, 1999**

	Total	Under 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 & Over	Not Stated
All Causes	1,972	13	2	10	21	18	68	100	154	331	555	700	-
Septicemia (A40-A41)	17	-	-	-	-	-	-	2	1	4	2	8	-
Human immunodeficiency virus disease (B20-B24)	-	-	-	-	-	-	-	-	-	-	-	-	-
Malignant neoplasms (C00-C97)	414	-	-	1	2	2	18	43	59	100	131	58	-
Colon, rectum and anus (C18-C21)	39	-	-	-	-	1	2	5	1	9	11	10	-
Pancreas (C25)	25	-	-	-	-	-	-	-	3	8	8	6	-
Trachea, bronchus and lung (C33-C34)	110	-	-	-	-	-	1	7	21	37	34	10	-
Malignant melanoma of skin (C43)	6	-	-	-	-	1	-	1	1	-	1	2	-
Breast (C50)	58	-	-	-	-	-	6	9	5	8	25	5	-
Cervix uteri, corpus uteri and ovary (C53-C56)	43	-	-	-	1	-	4	6	9	7	9	7	-
Urinary tract (C64-C68)	13	-	-	-	-	-	-	1	2	3	5	2	-
Brain and other central nervous system (C70-C72)	12	-	-	1	-	-	-	1	4	5	1	-	-
Leukemia (C91-C95)	14	-	-	-	-	-	1	-	2	5	2	4	-
Other malignant neoplasms	94	-	-	0	1	0	4	13	11	18	35	12	-
Diabetes mellitus (E10-E14)	72	-	-	-	-	-	2	2	10	21	25	12	-
Alzheimer's disease (G30)	64	-	-	-	-	-	-	-	1	8	13	42	-
Major cardiovascular diseases (I00-I78)	688	-	-	-	1	2	6	15	28	98	204	334	-
Diseases of heart (I00-I09, I11, I13, I20-I51)	479	-	-	-	1	1	3	8	25	74	140	227	-
Hypertensive heart disease with or without renal disease (I11, I13)	12	-	-	-	-	-	-	-	2	-	3	7	-
Ischemic heart disease (I20-I25)	297	-	-	-	-	-	1	4	16	53	91	132	-
Other heart disease (I00-I09, I26-I51)	170	-	-	-	1	1	2	4	7	21	46	88	-
Essential hypertension and hypertensive renal disease (I10, I12)	14	-	-	-	-	-	-	-	-	1	7	6	-
Cerebrovascular disease (I60-I69)	162	-	-	-	-	1	3	5	2	22	44	85	-
Atherosclerosis (I70)	10	-	-	-	-	-	-	-	-	-	2	8	-
Other diseases of the circulatory system (I71-I78)	23	-	-	-	-	-	-	2	1	1	11	8	-
Influenza and pneumonia (J10-J18)	80	1	-	-	-	-	1	1	1	6	26	44	-
Chronic lower respiratory disease (J40-J47)	164	-	-	-	-	-	-	5	19	44	52	44	-
Peptic Ulcer (K25-K28)	4	-	-	-	-	-	-	-	1	-	1	2	-
Chronic liver disease and cirrhosis (K70, K73-K74)	15	-	-	-	-	-	6	1	-	5	2	1	-
Nephritis and nephrosis (N00-N07, N17-N19, N25-N27)	15	-	-	-	-	-	-	-	1	3	5	6	-
Certain conditions of the perinatal period (P00-P96)	7	7	-	-	-	-	-	-	-	-	-	-	-
Congenital malformations (Q00-Q99)	10	3	1	2	1	-	-	1	1	1	-	-	-
Sudden Infant Death Syndrome (R95)	1	1	-	-	-	-	-	-	-	-	-	-	-
Symptoms, signs and abnormal clinical and laboratory findings (R00-R94, R96-R99)	25	-	-	-	1	1	-	-	2	2	4	15	-
All other diseases	275	-	-	1	2	1	11	12	19	33	78	118	-
Motor vehicle related injuries*	54	-	1	5	11	5	14	8	4	3	3	-	-
Other unintentional injuries*	38	1	-	-	-	2	4	2	4	1	9	15	-
Suicide (X60-X84, Y87.0)	23	-	-	1	2	4	6	6	2	2	-	-	-
Homicide (X85-Y09, Y87.1)	1	-	-	-	1	-	-	-	-	-	-	-	-
All other external causes (Y10-Y36, Y40-84, Y87.2, Y88-89)	5	-	-	-	-	1	-	2	1	-	-	1	-

\*Motor vehicle related injuries (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2)

Other unintentional injuries (V01, V05-V06, V09.1, V09.3-V09.9, V10-V11, V15-V18, V19.3, V19.8-V19.9, V80.0-V80.2, V80.6-V80.9, V81.2-V81.9, V82.2-V82.9, V87.9, V88.9, V89.1, V89.3, V89.9, V90-X59, Y85-Y86)

**RESIDENT DEATHS BY DETAILED CAUSE AND SEX  
WYOMING, 1999**

Cause of Death	ICD Code	Total	Male	Female
All Causes		4,038	2,066	1,972
Certain infectious and parasitic diseases	A00-B99	47	22	25
Intestinal infectious diseases	A00-A09	1	-	1
Intestinal infections due to other specified organisms	A04,A07-A08	1	-	1
Zoonotic and other bacterial diseases	A20-A49	36	16	20
Septicemia	A40-A41	31	14	17
Other zoonotic and bacterial diseases	A21-A22,A24-A32, A42-A44,A48-A49	5	2	3
Viral Diseases	A80-B34	7	5	2
Herpesviral (herpes simplex) infections	B00	1	-	1
Zoster (herpes zoster)	B02	2	1	1
Human immunodeficiency virus (HIV) disease	B20-B24	2	2	-
All other and unspecified viral diseases	A81,A85.0-A85.1,A85.8, A86-A89,B01,B04, B07-B09,B25-B34	2	2	-
Other and unspecified infectious and parasitic diseases and their sequelae	B35-B99	3	1	2
All other unspecified infectious and parasitic diseases	B85-B89,B92-B99	3	1	2
Neoplasms	C00-D48	922	498	424
Malignant neoplasms	C00-C97	898	484	414
Malignant neoplasms of lip, oral cavity and pharynx	C00-C14	10	5	5
Of tongue	C01-C02	3	1	2
Of pharynx	C10-C13,C14.0	3	2	1
Other and unspecified sites in the lip, oral cavity and pharynx	C03-C09,C14.2-C14.8	4	2	2
Malignant neoplasms of digestive organs	C15-C26	216	124	92
Of esophagus	C15	24	19	5
Of stomach	C16	14	10	4
Of small intestine	C17	4	1	3
Of colon	C18	76	42	34
Of rectosigmoid junction and rectum	C19-C20	16	11	5
Of anus and anal canal	C21	1	1	-
Of liver and intrahepatic bile ducts	C22	16	6	10
Of gallbladder and extrahepatic bile ducts	C23-C24	6	3	3
Of pancreas	C25	55	30	25
Of other and ill-defined digestive organs	C26	4	1	3
Malignant neoplasms of respiratory and intrathoracic organs	C30-C39	253	141	112
Of nasal cavity, middle ear and accessory sinuses	C30-C31	1	1	-
Of larynx	C32	8	6	2
Of trachea, bronchus and lung	C33-C34	242	132	110
Of thymus, heart, mediastinum and pleura	C37-C38	2	2	-
Melanoma and other malignant neoplasms of skin	C43-C44	25	18	7
Malignant melanoma of skin	C43	19	13	6
Other malignant neoplasms of skin	C44	6	5	1
Malignant neoplasms of mesothelial and soft tissue	C45-C49	12	7	5
Mesothelioma	C45	3	3	-
Of other mesothelial and soft tissue	C47-C49	9	4	5
Malignant neoplasm of breast	C50	60	2	58
Malignant neoplasms of female genital organs	C51-C58	44	-	44
Of vulva and vagina	C51-C52	1	-	1
Of cervix uteri	C53	13	-	13
Of corpus uteri and uterus, part unspecified	C54-C55	14	-	14
Of ovary	C56	16	-	16

**RESIDENT DEATHS BY DETAILED CAUSE AND SEX  
WYOMING, 1999 (CONTINUED)**

Cause of Death	ICD Code	Total	Male	Female
Malignant neoplasms of male genital organs	C60-C63	57	57	-
Of prostate	C61	57	57	-
Malignant neoplasms of urinary tract	C64-C68	47	34	13
Of kidney and renal pelvis	C64-C65	20	15	5
Of bladder	C67	24	18	6
Of other and unspecified sites within the urinary tract	C66,C68	3	1	2
Malignant neoplasms of the meninges, brain and other parts of the central nervous system	C70-72	29	17	12
Of brain	C71	28	17	11
Of other parts of central nervous	C70,C72	1	-	1
Malignant neoplasms of thyroid and other endocrine glands	C73-C75	5	3	2
Malignant neoplasms of other and unspecified sites	C76-C80,C97	69	32	37
Malignant neoplasms of lymphoid, hematopoietic and related tissue	C81-C96	71	44	27
Hodgkin's disease	C81	2	2	-
Non-Hodgkin's lymphoma	C82-C85	21	10	11
Multiple myeloma and malignant plasma cell neoplasms	C90	9	7	2
Lymphoid leukemia	C91	7	4	3
Myeloid leukemia	C92	22	15	7
Monocytic leukemia	C93	2	2	-
Other and unspecified leukemia	C94-C95	8	4	4
In situ neoplasms	D00-D09	1	-	1
Carcinoma in situ of other and unspecified sites	D00-D04,D09	1	-	1
Benign neoplasms	D10-D36	4	3	1
Of eye, brain and other parts of central nervous system	D31-D33	2	2	-
Of other and unspecified sites	D10-D24,D29-D30,D34-D36	2	1	1
Neoplasms of uncertain or unknown behavior of specified sites	D37-D47	18	11	7
Neoplasms of uncertain or unknown behavior of unspecified sites	D48	1	-	1
Diseases of the blood and blood forming organs and certain disorders involving the immune mechanism	D50-D89	10	3	7
Anemias	D50-D64	6	2	4
Aplastic anemias	D60-D61	2	1	1
Acute posthemorrhagic and other anemias	D62,D64	4	1	3
Other diseases of the blood and blood forming organs	D70-D76	3	1	2
Certain disorders involving the immune mechanism	D80-D89	1	-	1
Endocrine, nutritional and metabolic diseases	E00-E88	174	79	95
Endocrine diseases	E00-E34	141	64	77
Disorders of the thyroid gland	E00-E07	2	-	2
Diabetes mellitus	E10-E14	136	64	72
Disorders of the pituitary gland	E22-E23	2	-	2
Diseases of the thymus	E32	1	-	1
Nutritional diseases	E40-E68	13	5	8
Malnutrition	E40-E46	5	1	4
Other and unspecified malnutrition	E40,E42-E46	5	1	4
Other nutritional deficiencies	E50-E64	4	2	2
Obesity and other hyperalimentation	E65-E68	4	2	2
Metabolic disorders	E70-E88	20	10	10
Volume depletion, disorders of fluid, electrolyte and acid-base balance	E86-E87	6	1	5
Other metabolic disorders	E70-E83,E85,E88	14	9	5

**RESIDENT DEATHS BY DETAILED CAUSE AND SEX  
WYOMING, 1999 (CONTINUED)**

Cause of Death	ICD Code	Total	Male	Female
Mental and behavioral disorders	F01-F99	72	31	41
Organic dementia	F01,F03	49	13	36
Other and unspecified organic mental disorders	F04-F09	2	1	1
Mental and behavioral disorders due to psychoactive substance use	F10-F19	21	17	4
Mental and behavioral disorders due to use of alcohol	F10	20	17	3
Mental and behavioral disorders due to other psychoactive substance use	F11-F19	1	-	1
Diseases of the nervous system	G00-G98	179	77	102
Meningitis	G00,G03	1	1	-
Other inflammatory diseases of central nervous system	G04-G09	1	1	-
Parkinson's disease	G20-G21	24	11	13
Alzheimer's disease	G30	103	39	64
Multiple sclerosis	G35	10	1	9
Epilepsy	G40-41	2	1	1
Transient cerebral ischemic attacks and related syndromes	G45	2	1	1
Infantile cerebral palsy	G80	1	1	-
All other diseases of the nervous system	G10-G12,G23-G25,G31,G36-G37,G43-G44,G47-G72,G81-G98	35	21	14
Diseases of the circulatory system	I00-I99	1,372	681	691
Acute rheumatic fever and chronic rheumatic heart disease	I00-I09	9	3	6
Chronic rheumatic heart disease	I05-I09	9	3	6
Rheumatic mitral valve diseases	I05	3	1	2
Rheumatic aortic valve diseases	I06	2	1	1
Disorders of both mitral and aortic valves	I08.0	1	1	-
Other chronic rheumatic heart diseases	I07,I08.1-I08.9,I09	3	-	3
Hypertensive diseases	I10-I13	48	22	26
Essential (primary) hypertension	I10	15	5	10
Hypertensive heart disease	I11	24	12	12
Hypertensive renal disease	I12	8	4	4
Hypertensive heart and renal disease	I13	1	1	-
Ischemic heart diseases	I20-I25	694	397	297
Acute myocardial infarction	I21-I22	267	164	103
Other acute ischemic heart diseases	I24	3	-	3
Other forms of chronic ischemic heart disease	I20,I25	424	233	191
Atherosclerotic cardiovascular disease	I25.0	69	30	39
All other forms of chronic ischemic heart disease	I20,I25.1-I25.9	355	203	152
Other heart diseases	I26-I51	282	118	164
Pulmonary heart disease and diseases of pulmonary circulation	I26-I28	36	19	17
Pulmonary embolism	I26	24	14	10
Other pulmonary heart disease and diseases of pulmonary circulation	I27-I28	12	5	7
Other non-pulmonary forms of heart disease	I30-I51	246	99	147
Acute and subacute endocarditis	I33	1	1	-
Diseases of pericardium and acute myocarditis	I30-I31,I40	3	1	2
Nonrheumatic mitral valve disorders	I34	7	2	5
Nonrheumatic aortic valve disorders	I35	22	11	11
All other diseases of endocardium	I36-I38	13	3	10
Cardiomyopathy	I42	30	16	14
Conduction disorders and cardiac dysrhythmias	I44-I49	50	23	27



**RESIDENT DEATHS BY DETAILED CAUSE AND SEX  
WYOMING, 1999 (CONTINUED)**

Cause of Death	ICD Code	Total	Male	Female
Congestive heart failure	I50.0	104	37	67
Other and unspecified heart failure	I50.1-I50.9	8	2	6
All other and ill-defined forms of heart disease	I51.0-I51.3,I51.6-I51.9	8	3	5
Cerebrovascular diseases	I60-I69	264	102	162
Subarachnoid hemorrhage	I60	18	9	9
Intracerebral and other intracranial hemorrhage	I61-I62	38	19	19
Cerebral infarction	I63	16	7	9
Stroke, not specified as hemorrhage or infarction	I64	151	51	100
Other cerebrovascular diseases and their sequelae	I67,I69	41	16	25
Diseases of arteries, arterioles and capillaries	I70-I78	68	35	33
Atherosclerosis	I70	18	8	10
Aortic aneurysm and dissection	I71	29	18	11
Other diseases of arteries, arterioles and capillaries	I72-I78	21	9	12
Other disorders of circulatory system	I80-I99	7	4	3
Phlebitis, thrombophlebitis, venous embolism and thrombosis	I80-I82	5	3	2
All other and unspecified disorders of circulatory system	I83-I99	2	1	1
Diseases of the respiratory system	J00-J98	539	269	270
Acute upper respiratory infections	J00-J06	1	1	-
Other and unspecified acute upper respiratory infections	J00-J01,J05-J06	1	1	-
Influenza	J10-J11	10	4	6
Pneumonia	J12-J18	120	46	74
Viral pneumonia, not elsewhere classified	J12	2	1	1
Bacterial pneumonia	J13-J15	6	3	3
Pneumonia due to other or unspecified organisms	J16,J18	112	42	70
Other acute lower respiratory infections	J20-J22	1	-	1
Acute bronchitis and bronchiolitis	J20-J21	1	-	1
Other diseases of upper respiratory tract	J30-J39	1	1	-
Chronic lower respiratory diseases	J40-J47	338	174	164
Chronic bronchitis	J41-J42	1	1	-
Emphysema	J43	31	14	17
Other chronic obstructive pulmonary disease	J44	295	155	140
Asthma	J45-J46	10	4	6
Bronchiectasis	J47	1	-	1
Lung diseases due to external agents	J60-J70	23	15	8
Pneumoconioses and chemical effects	J60-J66,J68	4	4	-
Pneumonitis due to solids and liquids	J69	17	9	8
Other lung diseases due to external agents	J67,J70	2	2	-
Suppurative and necrotic conditions of lower respiratory tract	J85-J86	2	2	-
Pleural effusion and plaque	J90,J92	3	3	-
All other diseases of respiratory system	J80-J84,J93-J98	40	23	17
Diseases of the digestive system	K00-K92	166	79	87
Diseases of the esophagus	K20-K22	3	-	3
Peptic ulcer	K25-K28	5	1	4
Gastric ulcer	K25	1	1	-
Duodenal ulcer	K26	2	-	2
Peptic ulcer, site unspecified	K27	2	-	2
Gastritis and duodenitis	K29	1	1	-
Diseases of the appendix	K35-K38	2	2	-
Hernia	K40-K46	4	2	2
Crohn's disease and ulcerative colitis	K50-K51	1	-	1
Vascular disorders and obstruction of intestine without hernia	K55-K56	37	8	29

**RESIDENT DEATHS BY DETAILED CAUSE AND SEX  
WYOMING, 1999 (CONTINUED)**

Cause of Death	ICD Code	Total	Male	Female
Diverticular disease of intestine	K57	4	2	2
Other disease of intestines and peritoneum	K52,K58-K63	12	5	7
Diseases of the peritoneum	K65-K66	2	1	1
Diseases of the liver	K70-K76	60	40	20
Alcoholic liver disease	K70	33	25	8
Fibrosis and cirrhosis of liver	K74	16	9	7
Other diseases of liver	K71-K72,K75-K76	11	6	5
Cholelithiasis and other disorders of gallbladder	K80-K82	6	4	2
Disorders of biliary tract and pancreas	K83-K86	13	8	5
Pancreatitis	K85,K86.0-K86.1	11	6	5
Other disorders of biliary tract and pancreas	K83,K86.2-K86.9	2	2	-
All other diseases of digestive system	K90,K92	16	5	11
Diseases of the skin and subcutaneous tissue	L00-L98	10	2	8
Infections of the skin and subcutaneous tissue	L00-L08	4	1	3
Other and unspecified diseases of skin and subcutaneous tissue	L10-L98	6	1	5
Diseases of the musculoskeletal system and connective tissue	M00-M99	27	5	22
Rheumatoid arthritis and related inflammatory polyarthropathies	M05-M08	3	-	3
Systemic lupus erythematosus	M32	3	-	3
Other arthropathies and related disorders	M00,M02,M10-M31,M33-M35	8	3	5
Dorsopathies	M40-M54	1	-	1
Soft tissue disorders	M60-M79	1	-	1
Osteopathies, chondropathies and other disorders of musculoskeletal system and connective tissue	M80-M99	11	2	9
Osteoporosis	M80-M81	7	-	7
Other osteopathies, chondropathies and disorders of musculoskeletal system and connective tissue	M83-M99	4	2	2
Diseases of the genitourinary system	N00-N98	59	23	36
Diseases of the urinary system	N00-N39	56	21	35
Nephrotic syndrome	N04	1	-	1
Other and unspecified glomerular diseases	N02-N03,N05-N07	2	1	1
Renal tubulo-interstitial diseases	N10-N15	1	-	1
Renal failure	N17-N19	26	13	13
Urinary tract infection, site not specified	N39.0	25	6	19
Other diseases of the urinary system	N28-N36,N39.1-N39.9	1	1	-
Diseases of the male genital organs	N40-N50	2	2	-
Hyperplasia of the prostate	N40	2	2	-
Disorders of the female genital organs	N70-N98	1	-	1
Noninflammatory disorders of the female genital tract	N80-N98	1	-	1
Certain conditions originating in the perinatal period	P00-P96	20	13	7
Newborn affected by maternal factors and complications of pregnancy labor and delivery	P00-P04	5	2	3
Disorders related to short gestation and low birth weight, not elsewhere classified	P07	4	2	2
Respiratory distress of newborn	P22	1	1	-
Other respiratory conditions originating in the perinatal period	P23-P28	4	4	-
Infections specific to the perinatal period	P35-P39	3	1	2
Other and unspecified conditions originating in the perinatal period	P05,P08,P29,P50-P96	3	3	-
Congenital malformations, deformations and chromosomal abnormalities	Q00-Q99	19	9	10
All other congenital malformations of the nervous system	Q01-Q04,Q06-Q07	5	2	3

**RESIDENT DEATHS BY DETAILED CAUSE AND SEX  
WYOMING, 1999 (CONTINUED)**

Cause of Death	ICD Code	Total	Male	Female
Congenital malformations of the heart	Q20-Q24	4	2	2
Other congenital malformations and deformations	Q10-Q18,Q35-Q89	5	3	2
Down's syndrome	Q90	3	1	2
All other chromosomal abnormalities not elsewhere classified	Q91-Q99	2	1	1
Symptoms, signs, and abnormal clinical and laboratory findings	R00-R99	39	13	26
Senility	R54	3	-	3
Sudden Infant Death Syndrome	R95	7	6	1
Other ill-defined and unknown causes of mortality	R96-R99	12	4	8
Other symptoms, signs and abnormal clinical and laboratory findings	R00-R53,R55-R94	17	3	14
External Causes of Mortality	V01-Y89	383	262	121
Accidents	V01-X59,Y85-Y86	259	167	92
Railway accidents	V05,V15,V80.6,V81.2-V81.9	1	1	-
Motor vehicle accidents	V02-V04,V09.0,V09.2,V12-V14, V19.0-V19.2,V19.4-V19.6, V20-V79,V80.3-V80.5, V81.0-V81.1,V82.0-V82.1, V83-V86,V87.0-V87.8, V88.0-V88.8,V89.0,V89.2	145	91	54
Pedestrian involved in collision with motor vehicle	V02-V04	7	6	1
Pedalcyclist involved in collision with motor vehicle	V12-V14,V19.0-V19.2, V19.4-V19.6	2	2	-
Motorcyclist involved in any accident except with railway	V20-V24,V26-V34,V36-V39	8	5	3
Occupant of motor vehicle involved in collision with other vehicle, animal or pedestrian	V40-V41,V46-V47,V50-V51, V56-V57,V60-V61,V66-V67, V70-V71,V76-V77	3	2	1
Occupant of motor vehicle involved in collision with other motor vehicle	V42-V44,V49,V52-V54,V59, V62-V64,V69,V72-V74,V79,	40	26	14
Occupant of motor vehicle involved in noncollision accident	V48,V58,V68,V78	27	15	12
Occupant of special use motor vehicle involved in accident	V83-V86	2	1	1
Other and unspecified motor vehicle accidents	V09.0,V09.2,V80.3-V80.5, V82.0-V82.1,V87.0-V87.5, V87.7-V87.8,V88.0-V88.5, V88.7-V88.8,V89.0,V89.2	56	34	22
Other and unspecified land transport accidents	V01,V06,V09.1,V09.3,V09.9, V10-V11,V16-V18,V19.3, V19.8-V19.9,V80.0-V80.2, V80.7-V80.9,V87.9,V88.9, V89.1,V89.3,V89.9	4	4	-
Water transport accidents	V90-V94	4	4	-
Air and space transport accidents	V95-V97	4	4	-
Falls	W00-W19	25	15	10
Accidental discharge of firearms	W32-W34	4	4	-
Accidental drowning and submersion	W65-W74	7	6	1
Accidental inhalation and ingestion of food or other object causing obstruction of respiratory tract	W78-W80	7	2	5
Other accidental and unspecified threats to breathing	W75-W77,W81-W84	2	1	1
Accidental exposure to smoke, fire and flames	X00-X09	4	3	1
Lightning	X33	2	1	1
Accidental poisoning and exposure to noxious substances	X40-X49	16	10	6
Accidental poisoning by and exposure to drugs and other biological substances	X40-X44	11	6	5

**RESIDENT DEATHS BY DETAILED CAUSE AND SEX  
WYOMING, 1999 (CONTINUED)**

Cause of Death	ICD Code	Total	Male	Female
Accidental poisoning by and exposure to other and unspecified solid or liquid substances	X45-X46,X48-X49	2	1	1
Accidental poisoning by and exposure to gases and vapors	X47	3	3	-
All other and unspecified accidents and their sequelae	W20-W31,W35-W38,W41-W64, W92-W99,X20-X32,X39, X50-X59,Y86	34	21	13
Intentional self-harm (suicide)	X60-X84,Y87.0	98	75	23
Intentional self-poisoning by and exposure to drugs and other biological substances	X60-X64	8	3	5
Intentional self-poisoning by and exposure to other and unspecified solid or liquid substances and their vapors	X65-X66,X68-X69	2	2	-
Intentional self-poisoning by and exposure to other gases and vapors	X67	8	4	4
Intentional self-harm by hanging, strangulation and suffocation	X70	13	9	4
Intentional self-harm by discharge of firearms	X72-X74	63	53	10
Intentional self-harm by jumping from a high place	X80	1	1	-
Intentional self-harm by all other and unspecified means and their sequelae	X71,X75-X79,X81-X84,Y87.0	3	3	-
Assault (homicide)	X85-Y09,Y87.1	12	11	1
Assault by discharge of firearms	X93-X95	5	4	1
Assault by a sharp object	X99	2	2	-
Assault by a blunt object	Y00	1	1	-
Neglect, abandonment and other maltreatment syndromes	Y06-Y07	1	1	-
Assault by all other and unspecified means and their sequelae	X92,X96-X98,Y01-Y03, Y08-Y09,Y87.1	3	3	-
Event of undetermined intent	Y10-Y34,Y87.2,Y89.9	4	2	2
Poisoning by and exposure to drugs and biological substances, undetermined intent	Y10-Y14	1	-	1
Poisoning by and exposure to other and unspecified solid or liquid substances, undetermined intent	Y15-Y16,Y18-Y19	2	1	1
All other and unspecified events of undetermined intent and their sequelae	Y20-Y21,Y25-Y29,Y31-Y34, Y87.2,Y89.9	1	1	-
Legal intervention	Y35,Y89.0	2	2	-
Complications of medical and surgical care and their sequelae	Y40-Y84,Y88	8	5	3
Drugs, medicaments and biological substances causing adverse effects in therapeutic use, and their sequelae	Y40-Y59,Y88.0	1	1	-
Other complications of medical and surgical care and their sequelae	Y70-Y84,Y88.2-Y88.3	7	4	3

**DEATHS BY COUNTY OF RESIDENCE  
AND COUNTY OF OCCURRENCE  
WYOMING, 1995 - 1999**

County	1995		1996		1997		1998		1999	
	Res	Occ	Res	Occ	Res	Occ	Res	Occ	Res	Occ
Wyoming	3,720	3,559	3,604	3,422	3,740	3,583	3,847	3,660	4,038	3,888
Albany	166	168	164	158	160	162	184	180	172	171
Big Horn	130	88	129	94	122	94	136	105	141	96
Campbell	133	133	115	112	155	136	135	120	155	144
Carbon	148	141	144	122	119	107	146	135	137	128
Converse	97	83	89	68	76	57	86	67	93	70
Crook	49	32	38	33	36	29	55	43	38	38
Fremont	341	296	314	264	372	333	342	312	365	300
Goshen	129	111	117	94	116	97	134	115	132	103
Hot Springs	51	47	51	49	64	55	60	50	68	64
Johnson	83	73	79	64	81	64	84	79	58	57
Laramie	621	619	593	605	600	621	621	654	638	690
Lincoln	85	57	86	66	92	72	87	66	104	77
Natrona	531	587	499	541	537	582	513	553	589	656
Niobrara	32	20	34	32	33	28	24	22	32	24
Park	214	193	193	189	240	216	212	206	272	266
Platte	84	73	98	89	97	89	104	93	112	94
Sheridan	261	274	253	270	250	269	322	306	272	279
Sublette	38	42	36	32	59	54	52	46	52	45
Sweetwater	243	214	235	203	230	218	240	219	252	220
Teton	50	77	66	89	58	73	62	61	68	94
Uinta	96	99	109	101	108	98	84	77	124	120
Washakie	72	73	107	101	72	65	95	95	97	95
Weston	66	54	55	43	60	49	69	50	66	48
Yellowstone NP	-	5	-	3	3	15	-	6	1	9

**INFANT, NEONATAL, AND POST NEONATAL MORTALITY RATES  
WYOMING AND THE UNITED STATES, 1970 - 1999**

Year	Neonatal		Post Neonatal		Infant	
	WY	U.S.	WY	U.S.	WY	U.S.
1970	15.3	15.1	4.7	4.9	20.0	20.0
1971	18.7	14.2	6.0	4.9	24.7	19.1
1972	17.5	13.6	4.3	4.8	21.8	18.5
1973	14.5	13.0	4.1	4.8	18.6	17.7
1974	11.3	12.3	4.9	4.4	16.2	16.7
1975	12.8	11.6	4.5	4.5	17.3	16.1
1976	10.7	10.9	5.7	4.3	16.4	15.2
1977	8.6	9.9	5.3	4.2	13.9	14.1
1978	8.1	9.5	5.0	4.3	13.1	13.8
1979	8.4	8.9	4.8	4.2	13.2	13.1
1980	6.4	8.5	3.4	4.1	9.9	12.6
1981	7.0	8.0	4.2	3.9	11.2	11.9
1982	5.9	7.7	4.0	3.8	9.9	11.5
1983	5.1	7.3	4.8	3.9	9.8	11.2
1984	7.1	7.0	4.0	3.8	11.1	10.8
1985	6.4	7.0	5.8	3.7	12.2	10.6
1986	5.7	6.7	5.2	3.6	10.9	10.4
1987	6.1	6.5	3.1	3.6	9.2	10.1
1988	4.3	6.3	4.6	3.6	8.9	10.0
1989	5.2	6.2	4.2	3.6	9.4	9.8
1990	3.9	5.8	4.7	3.4	8.6	9.2
1991	3.1	5.6	4.6	3.4	7.8	8.9
1992	4.2	5.4	4.9	3.1	9.1	8.5
1993	4.6	5.3	3.4	3.1	7.9	8.4
1994	4.0	5.1	2.8	2.9	6.8	8.0
1995	3.7	4.9	4.0	2.7	7.7	7.6
1996	4.0	4.8	2.4	2.5	6.4	7.3
1997	3.1	4.8	2.7	2.5	5.8	7.2
1998	4.3	4.8	2.7	2.4	7.0	7.2
1999	4.1	NA	2.8	NA	6.9	NA

Note: Rates per 1,000 live births.

**INFANT DEATHS BY AGE AND COUNTY OF RESIDENCE  
WYOMING, 1999**

Residence	Total	Neonatal			28 Days - 1 Year
		Total	Under 7 Days	7 - 27 Days	
Wyoming	42	25	19	6	17
Albany	3	1	1	-	2
Big Horn	1	-	-	-	1
Campbell	3	3	3	-	-
Carbon	3	1	1	-	2
Converse	1	1	1	-	-
Crook	-	-	-	-	-
Fremont	2	1	1	-	1
Goshen	-	-	-	-	-
Hot Springs	1	-	-	-	1
Johnson	-	-	-	-	-
Laramie	8	5	3	2	3
Lincoln	-	-	-	-	-
Natrona	7	5	3	2	2
Niobrara	-	-	-	-	-
Park	2	-	-	-	2
Platte	-	-	-	-	-
Sheridan	2	1	1	-	1
Sublette	-	-	-	-	-
Sweetwater	5	4	2	2	1
Teton	-	-	-	-	-
Uinta	1	1	1	-	-
Washakie	1	-	-	-	1
Weston	2	2	2	-	-
Yellowstone NP	-	-	-	-	-

**INFANT AND NEONATAL DEATHS  
BY COUNTY OF RESIDENCE  
WYOMING, 1995 - 1999**

Residence	Infant						Neonatal					
	1995	1996	1997	1998	1999	Rate <sup>1</sup> 95-99	1995	1996	1997	1998	1999	Rate <sup>1</sup> 95-99
Wyoming	48	40	37	44	42	6.7	23	25	20	27	25	3.8
Albany	4	2	3	2	3	7.4	3	2	-	2	1	4.3
Big Horn	-	1	-	3	1	6.7	-	-	-	1	-	1.3
Campbell	2	3	4	-	3	5.3	1	1	3	-	3	3.5
Carbon	2	2	2	-	3	10.3	-	-	1	-	1	2.3
Converse	3	1	-	1	1	7.9	3	1	-	1	1	7.9
Crook	-	-	-	-	-	--	-	-	-	-	-	--
Fremont	7	4	5	9	2	11.3	2	1	3	6	1	5.4
Goshen	2	2	-	1	-	6.8	1	1	-	1	-	4.1
Hot Springs	-	-	-	-	1	4.4	-	-	-	-	-	--
Johnson	-	-	-	-	-	--	-	-	-	-	-	--
Laramie	8	6	7	9	8	6.7	5	4	6	4	5	4.2
Lincoln	-	2	1	-	-	3.2	-	2	-	-	-	2.1
Natrona	9	1	6	2	7	5.8	3	-	4	1	5	3.0
Niobrara	-	-	-	-	-	--	-	-	-	-	-	--
Park	3	5	4	4	2	12.5	1	5	2	1	-	6.3
Platte	-	-	1	1	-	4.3	-	-	-	1	-	2.2
Sheridan	1	1	1	1	2	4.4	1	1	-	1	1	2.9
Sublette	1	-	-	1	-	6.3	1	-	-	1	-	6.3
Sweetwater	2	3	1	5	5	5.9	-	2	-	5	4	4.0
Teton	-	2	-	-	-	2.3	-	2	-	-	-	2.3
Uinta	1	3	1	3	1	5.5	-	2	1	1	1	3.1
Washakie	2	2	-	1	1	12.0	1	1	-	1	-	6.0
Weston	1	-	1	1	2	14.7	1	-	-	-	2	8.8
Yellowstone NP	-	-	-	-	-	--	-	-	-	-	-	--

<sup>1</sup>Rates are per 1,000 live births.



**RESIDENT INFANT DEATHS BY  
SELECTED CAUSE AND AGE AT DEATH  
WYOMING, 1999**

	Total	Neonatal			28 Days - 1 Year
		Total	Under 7 Days	7-27 Days	
All causes	42	25	19	6	17
Meningitis (G00, G03)	1	-	-	-	1
Influenza and pneumonia (J10-J18)	3	-	-	-	3
Certain conditions originating in the perinatal period (P00-P96)	20	20	15	5	-
Newborn affected by maternal complications of pregnancy (P01)	3	3	3	-	-
Newborn affected by complications of placenta, cord and membranes (P02)	2	2	1	1	-
Disorders relating to short gestation and unspecified low birthweight (P07)	4	4	4	-	-
Respiratory distress of newborn (P22)	1	1	1	-	-
Congenital pneumonia (P23)	1	1	-	1	-
Atelectasis (P28.0, P28.1)	2	2	2	-	-
Bacterial sepsis of newborn (P36)	3	3	1	2	-
Neonatal hemorrhage (P50-P52, P54)	1	1	-	1	-
All other and ill-defined conditions originating in the perinatal period	3	3	3	-	-
Congenital anomalies (Q00-Q99)	7	4	4	-	3
Sudden infant death syndrome (R95)	7	-	-	-	7
Unintentional injuries (V01-X59, Y85-Y86)	2	-	-	-	2
All other causes	2	1	-	1	1

**STILLBIRTHS BY  
COUNTY OF RESIDENCE  
WYOMING, 1995 - 1999**

Residence	1995	1996	1997	1998	1999
Wyoming	34	48	27	24	33
Albany	-	3	1	3	1
Big Horn	-	3	1	1	1
Campbell	2	3	1	2	4
Carbon	2	-	1	-	2
Converse	-	3	1	2	1
Crook	-	-	1	1	-
Fremont	7	6	3	2	2
Goshen	-	1	1	3	1
Hot Springs	1	-	-	-	1
Johnson	-	-	-	-	1
Laramie	6	8	2	1	6
Lincoln	1	1	1	-	1
Natrona	5	6	8	1	7
Niobrara	-	1	-	-	-
Park	-	2	-	-	1
Platte	-	3	-	-	-
Sheridan	5	1	1	1	-
Sublette	-	1	1	-	1
Sweetwater	1	-	1	2	-
Teton	-	4	1	-	-
Uinta	2	2	1	1	3
Washakie	1	-	-	3	-
Weston	1	-	1	1	-
Yellowstone NP	-	-	-	-	-

***MARRIAGE AND  
DIVORCE***

## ***MARRIAGE AND DIVORCE***

There were 4,931 marriages performed in Wyoming in 1999, 143 more than the previous year. The state's marriage rate rose from 10.0 per 1,000 population in 1998 to 10.3 in 1999. The rate for the U.S. as a whole rose from 8.4 to 8.6.

Both the bride and groom were entering their first marriage in 45% of the state's marriages. In 31% of the marriages, both the bride and groom had been previously married. The median age at first marriage was 22.9 years for brides and 25.1 years for grooms. Median ages at remarriage were 37.2 years for brides and 40.7 years for grooms.

In 75% of the marriages taking place in the state, both the bride and groom were Wyoming residents. Neither the bride nor the groom were state residents in 20% of the marriages.

The number of divorces and annulments granted in the state rose slightly from 2,809 in 1998 to 2,818 in 1999. The divorce rate remained at 5.9 divorces per 1,000 population. Wyoming's rate exceeded the national rate of 4.1, by 44%.

The median duration of marriages ending in divorce was 6.6 years. Marriages lasting less than five years accounted for 40% of the divorces. Those lasting between five and ten years accounted for 24% and those lasting ten years or more, 35%.

The total number of children affected by divorce increased from 2,730 in 1998 to 2,754 in 1999.

**MARRIAGES AND RATES  
BY COUNTY OF OCCURRENCE  
WYOMING, 1995 - 1999**

Residence	1995		1996		1997		1998		1999	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
U.S. Rate	--	8.9	--	8.8	--	8.9	--	8.4	--	8.6
Wyoming	5,037	10.5	4,959	10.3	4,889	10.2	4,788	10.0	4,931	10.3
Albany	254	8.2	257	8.4	279	9.4	230	7.9	231	7.9
Big Horn	87	7.8	90	8.0	85	7.7	68	6.0	76	6.8
Campbell	239	7.6	280	8.8	269	8.4	285	8.8	324	9.9
Carbon	142	8.9	114	7.2	142	9.0	142	9.1	167	10.8
Converse	136	11.4	145	12.0	128	10.4	117	9.5	104	8.4
Crook	42	7.4	35	6.1	37	6.4	42	7.3	42	7.3
Fremont	316	8.9	314	8.7	303	8.4	324	9.0	332	9.2
Goshen	133	10.5	151	11.9	128	9.9	132	10.3	118	9.3
Hot Springs	63	13.7	55	11.9	54	11.5	71	15.3	53	11.8
Johnson	81	12.2	59	8.8	73	10.8	55	8.1	56	8.2
Laramie	838	10.7	868	11.0	845	10.7	786	10.0	798	10.1
Lincoln	105	7.6	83	5.9	75	5.4	85	6.2	102	7.3
Natrona	658	10.3	585	9.2	554	8.7	582	9.2	591	9.4
Niobrara	23	8.8	21	8.0	33	12.5	30	11.1	16	6.0
Park	270	10.7	278	11.0	267	10.4	243	9.4	244	9.6
Platte	83	10.0	104	12.3	91	10.6	76	8.8	71	8.2
Sheridan	319	12.8	268	10.6	266	10.6	267	10.6	293	11.7
Sublette	58	10.6	62	11.1	46	8.1	69	12.0	62	10.7
Sweetwater	347	8.5	302	7.5	311	7.8	289	7.3	362	9.2
Teton	452	33.9	510	37.5	526	37.8	531	37.4	548	37.7
Uinta	215	10.7	221	10.9	188	9.3	193	9.5	176	8.7
Washakie	86	10.0	82	9.6	89	10.3	81	9.3	83	9.7
Weston	54	8.2	51	7.7	64	9.8	62	9.5	52	8.1
Yellowstone NP	36	--	24	--	36	--	28	--	30	--

**MARRIAGES BY MONTH  
AND COUNTY OF OCCURRENCE  
WYOMING, 1999**

Occurrence	Total	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Wyoming	4,931	225	259	262	261	417	641	690	710	518	328	279	341
Albany	231	7	5	9	8	24	28	40	36	31	14	14	15
Big Horn	76	4	5	3	4	5	11	11	8	4	7	8	6
Campbell	324	15	16	23	15	24	46	37	53	37	21	17	20
Carbon	167	12	4	7	5	13	28	19	26	19	5	14	15
Converse	104	6	8	4	4	9	12	16	13	11	4	11	6
Crook	42	2	3	2	-	3	5	11	7	2	1	2	4
Fremont	332	16	16	15	22	29	47	49	37	26	25	22	28
Goshen	118	6	8	6	9	12	16	20	10	7	7	4	13
Hot Springs	53	3	3	4	3	10	8	4	6	3	4	1	4
Johnson	56	4	4	-	3	5	8	9	10	7	3	1	2
Laramie	798	29	52	53	49	74	102	90	100	71	63	59	56
Lincoln	102	7	5	6	7	7	6	14	20	12	8	5	5
Natrona	591	23	32	37	35	41	79	74	82	57	43	34	54
Niobrara	16	1	2	1	1	2	1	4	1	-	2	-	1
Park	244	10	11	17	18	20	32	35	41	22	12	10	16
Platte	71	3	2	3	3	7	7	17	7	6	6	3	7
Sheridan	293	12	15	18	16	24	44	45	39	28	18	14	20
Sublette	62	2	3	-	-	3	9	13	12	9	3	3	5
Sweetwater	362	20	24	13	24	43	41	44	49	39	23	26	16
Teton	548	27	26	28	14	36	70	95	96	85	40	11	20
Uinta	176	8	10	11	11	8	18	21	28	21	11	13	16
Washakie	83	6	1	1	6	7	12	12	12	10	4	6	6
Weston	52	2	4	1	4	8	6	7	8	3	2	1	6
Yellowstone NP	30	-	-	-	-	3	5	3	9	8	2	-	-

**MARRIAGES BY AGE OF GROOM  
AND AGE OF BRIDE  
WYOMING OCCURRENCE, 1999**

Age of Groom	Total	Age of Bride												
		Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+
Total	4,931	-	582	1,404	904	592	481	387	261	148	71	47	26	28
Under 15	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-19	258	-	197	55	3	3	-	-	-	-	-	-	-	-
20-24	1,223	-	304	756	127	23	11	2	-	-	-	-	-	-
25-29	1,039	-	60	431	383	119	28	14	3	1	-	-	-	-
30-34	660	-	12	107	225	193	89	23	8	3	-	-	-	-
35-39	542	-	7	37	102	139	153	77	24	3	-	-	-	-
40-44	390	-	1	11	32	67	111	105	48	14	1	-	-	-
45-49	307	-	-	4	19	26	49	95	79	25	7	2	1	-
50-54	217	-	1	1	9	16	28	46	52	46	14	3	-	1
55-59	134	-	-	2	3	6	8	19	30	30	26	7	1	2
60-64	64	-	-	-	1	-	3	3	12	16	16	11	1	1
65-69	39	-	-	-	-	-	1	-	4	4	2	15	11	2
70+	58	-	-	-	-	-	-	3	1	6	5	9	12	22

**MARRIAGES BY AGE AND PREVIOUS MARITAL  
STATUS OF BRIDE AND GROOM  
WYOMING OCCURRENCE, 1999**

Age	Bride					Groom				
	Total	Previous Marital Status				Total	Previous Marital Status			
		Single	Widowed	Divorced	Not Stated		Single	Widowed	Divorced	Not Stated
Total	4,931	2,521	137	1,870	403	4,931	2,627	120	1,777	407
Under 15	-	-	-	-	-	-	-	-	-	-
15-19	582	526	-	10	46	258	234	-	1	23
20-24	1,404	1,142	2	161	99	1,223	1,066	-	65	92
25-29	904	485	3	335	81	1,039	734	1	226	78
30-34	592	201	10	340	41	660	307	3	297	53
35-39	481	83	10	343	45	542	171	4	317	50
40-44	387	50	14	279	44	390	68	7	279	36
45-49	261	24	16	200	21	307	29	10	232	36
50-54	148	5	14	114	15	217	10	13	171	23
55-59	71	2	16	48	5	134	3	8	117	6
60-64	47	1	18	25	3	64	2	18	39	5
65-69	26	1	15	9	1	39	2	20	16	1
70+	28	1	19	6	2	58	1	36	17	4



**DIVORCES AND ANNULMENTS WITH RATES  
BY COUNTY OF OCCURRENCE  
WYOMING, 1995 - 1999**

Residence	1995		1996		1997		1998		1999	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
U.S. Rate	--	4.4	--	4.3	--	4.3	--	4.2	--	4.1
Wyoming	3,149	6.6	3,084	6.4	2,965	6.2	2,809	5.9	2,818	5.9
Albany	172	5.6	155	5.1	142	4.8	156	5.3	115	4.0
Big Horn	44	4.0	44	3.9	36	3.2	30	2.6	43	3.8
Campbell	220	7.0	190	6.0	220	6.9	215	6.6	181	5.5
Carbon	112	7.0	122	7.7	83	5.3	62	4.0	99	6.4
Converse	83	7.0	63	5.2	67	5.4	51	4.2	45	3.6
Crook	23	4.1	21	3.6	19	3.3	24	4.2	29	5.0
Fremont	176	4.9	237	6.6	161	4.5	183	5.1	175	4.8
Goshen	74	5.9	66	5.2	66	5.1	70	5.5	54	4.3
Hot Springs	35	7.6	40	8.6	37	7.9	36	7.7	37	8.3
Johnson	40	6.0	35	5.2	29	4.3	25	3.7	25	3.6
Laramie	622	7.9	632	8.0	598	7.6	531	6.8	522	6.6
Lincoln	64	4.6	70	5.0	68	4.9	61	4.4	76	5.4
Natrona	519	8.1	499	7.8	465	7.3	432	6.8	426	6.7
Niobrara	11	4.2	12	4.5	12	4.5	11	4.1	9	3.4
Park	146	5.8	123	4.9	147	5.7	135	5.2	155	6.1
Platte	44	5.3	37	4.4	50	5.8	59	6.8	54	6.3
Sheridan	187	7.5	157	6.2	145	5.8	152	6.0	151	6.0
Sublette	34	6.2	30	5.4	28	5.0	30	5.2	34	5.9
Sweetwater	258	6.4	281	7.0	278	7.0	259	6.5	287	7.3
Teton	70	5.2	67	4.9	85	6.1	79	5.6	91	6.3
Uinta	127	6.3	126	6.2	136	6.7	132	6.5	142	7.0
Washakie	48	5.6	37	4.3	63	7.3	45	5.2	48	5.6
Weston	40	6.1	40	6.1	30	4.6	31	4.8	20	3.1

**DIVORCES AND ANNULMENTS BY DURATION OF  
MARRIAGE AND COUNTY OF OCCURRENCE  
WYOMING, 1999**

Occurrence	Total	Duration in Years											
		Under 1	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30 & Over	Not Stated
Wyoming	2,818	148	264	241	259	220	687	386	275	166	92	72	8
Albany	115	5	14	12	14	10	30	9	11	4	4	2	-
Big Horn	43	5	7	4	3	1	10	4	1	4	2	2	-
Campbell	181	14	11	13	18	14	41	22	27	10	4	6	1
Carbon	99	5	6	9	8	8	32	13	10	2	2	4	-
Converse	45	3	4	4	3	9	6	5	7	3	-	1	-
Crook	29	4	1	3	5	-	7	1	1	3	1	3	-
Fremont	175	6	9	9	14	10	47	34	19	9	9	7	2
Goshen	54	3	6	3	5	7	14	7	4	-	3	2	-
Hot Springs	37	3	4	6	4	3	4	7	3	2	-	1	-
Johnson	25	-	3	1	2	2	4	4	6	2	1	-	-
Laramie	522	30	63	64	54	47	113	58	41	25	14	10	3
Lincoln	76	5	6	5	5	5	16	16	8	6	3	1	-
Natrona	426	26	39	28	43	28	108	66	41	25	13	8	1
Niobrara	9	-	-	2	-	-	3	-	1	2	-	1	-
Park	155	8	15	13	10	13	37	26	10	16	2	4	1
Platte	54	4	5	4	4	5	9	9	5	3	4	2	-
Sheridan	151	8	13	15	16	12	35	12	15	15	5	5	-
Sublette	34	1	2	2	2	2	11	5	5	3	1	-	-
Sweetwater	287	13	28	21	22	22	79	45	24	13	11	9	-
Teton	91	1	3	6	6	4	21	16	20	7	5	2	-
Uinta	142	2	15	12	17	14	41	19	11	6	5	-	-
Washakie	48	2	7	5	4	2	12	5	3	6	1	1	-
Weston	20	-	3	-	-	2	7	3	2	-	2	1	-

**DIVORCES AND ANNULMENTS BY NUMBER OF CHILDREN  
AFFECTED AND COUNTY OF OCCURRENCE  
WYOMING, 1999**

Occurrence	Total	Number of Children <sup>1</sup>						
		None	One	Two	Three	Four	Five& Over	Not Stated
Wyoming	2,818	1,294	652	599	212	42	19	-
Albany	115	57	32	20	6	-	-	-
Big Horn	43	26	7	3	4	2	1	-
Campbell	181	81	42	48	9	-	1	-
Carbon	99	54	21	15	8	-	1	-
Converse	45	20	10	7	5	3	-	-
Crook	29	18	3	6	2	-	-	-
Fremont	175	68	39	53	8	3	4	-
Goshen	54	32	11	7	4	-	-	-
Hot Springs	37	24	5	5	3	-	-	-
Johnson	25	8	2	12	2	1	-	-
Laramie	522	268	113	103	31	6	1	-
Lincoln	76	33	13	20	4	4	2	-
Natrona	426	176	118	89	37	4	2	-
Niobrara	9	5	1	1	2	-	-	-
Park	155	72	40	30	10	3	-	-
Platte	54	20	13	14	5	2	-	-
Sheridan	151	83	30	25	11	2	-	-
Sublette	34	17	7	6	2	2	-	-
Sweetwater	287	117	68	62	33	4	3	-
Teton	91	40	28	19	3	1	-	-
Uinta	142	45	33	37	20	3	4	-
Washakie	48	21	12	13	2	-	-	-
Weston	20	9	4	4	1	2	-	-

<sup>1</sup>Children under age 18 in the family.